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A Complete Directory of International Radio and Television

31st Edition

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World Radio TV Handbook

Incorporating **Listen to the World** Volume 31

31st Annual Edition 1977

Editor: J.M.Frost
Søliljevej 44,
2650 Hvidovre, Denmark
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Australia: Australian Broadcasting Commission (incl. Radio Australia).
Austria: Osterreichischer Rundfunk.
Belgium: Radiodiff.-Television Belge.
Burma: Burma Broadcasting Service.
Canada: Canadian Broadcasting Corp.
Cyprus: Cyprus Broadcasting Corp.
Czechoslovakia: R. Prague
Denmark: R. Denmark.
Ecuador: The Voice of the Andes.
Ethiopia: Radio Voice of the Gospel.
Finland: The Finnish Broadcasting Co.
France: Telediffusion de France – Radio France International.
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German Dem. Rep: Staatliches Rundfunkkomitee – Radio DDR – Stimme der DDR – Berliner Rundfunk – Radio Berlin International.
Ghana: Ghana Broadcasting Corp.
Great Britain: British Broadcasting Corporation.
Greece: Hellenic National Radio.
Holland: Radio Nederland Wereldomroep.
Hungary: Magyar Radio es Televizio.
India: All India Radio.
Indonesia: Radio Republik Indonesia.
Iran: National Iranian Radio and Television.
Ireland: Radio Telefis Eireann.
Israel: Israel Broadcasting Service.
Italy: RAI (Radiotelevisione Italiana).
Japan: NHK (Radio Japan).
Liberia: Radio Station ELWA
Malaysia: Radio Television Malaysia.
Mocambique: Radio Mocambique.
Monaco: Trans World Radio.
New Zealand: New Zealand Broadcasting Council.
Nigeria: Nigerian Broadcasting Corp.
Norway: Norsk Rikskringkasting.
Pakistan: Radio Pakistan.
Papua New Guinea: National Broadcasting Commission.
Poland: Polskie Radio i Telewizja.
Portugal: Emissora Nacional.
Rumania: Radio Bucharest.
Saudi Arabia: Broadcasting Service of Saudi Arabia.
Spain: Radio Nacional de España-Sociedad Espanõla de Radiodifusion-Red de Emisoras del Movimiento.
Sweden: Swedish Broadcasting Corp.
Switzerland: Swiss Broadcasting Corp.
South Africa: South African Broadcasting Corp.
Taiwan: Broadcasting Corp. of China.
Turkey: Turkish Radio-Television Corporation.
USA: The Voice of America-Family Radio Network (WYFR), Far East Broadcasting Co, (Whittier, Calif.), International Voice of Friendship (KGEI).
USSR: The State Committee for Broadcasting and Television.
Vatican State: Vatican Radio.
Yugoslavia: Jugoslovenska Radio-Televizja.

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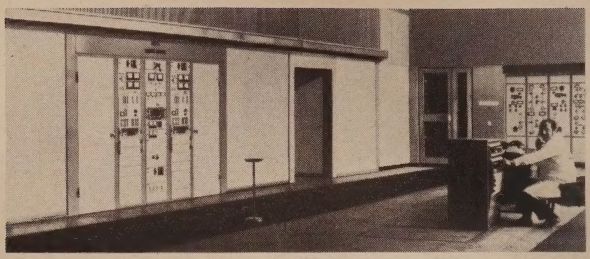

Front view of
two 1000 kW transmitters
in parallel .

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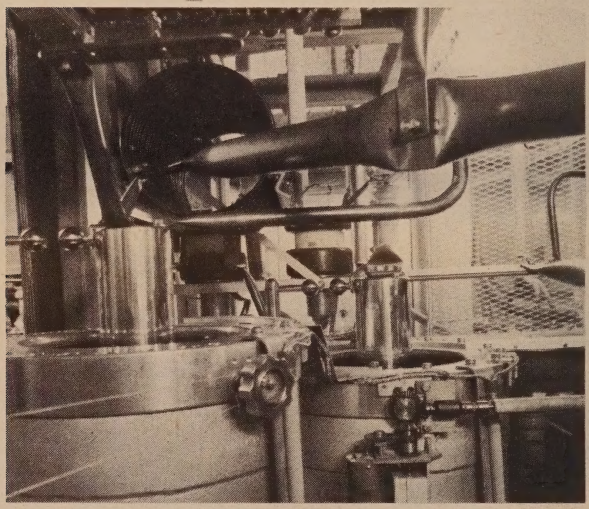
Who are the pioneers?



Output stage
of a 2 MW long-wave
transmitter

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The Editor of the World Radio Television Handbook seeks information from all stations and organisations engaged in broadcasting and/or television and interested in international broadcasting and/or television and publishes the information as communicated to him by the stations or organisations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply this information, or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

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MESSAGE TO THE EDITOR FOR THE 31st EDITION

(Left to right: Messrs Dalhuisen, Acda, Verheugd)

The WRTH started a year before the official founding of Radio Nederland. From our very beginning, the WRTH has been a highly respected and frequently consulted source of information. Proof of this esteem may be that the WRTH copies in our offices are repeatedly reported "missing".

Congratulating the WRTH on its 31st edition, we can only say: Keep up the good work!

J. W. Acda
Director-General
Radio Nederland

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HOW TO USE THE WORLD RADIO TELEVISION HANDBOOK

The World Radio TV Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver.

The first section of the Handbook contains instructive articles relating to broadcasting, information regarding broadcasting and television organisations.

The main section of the book (from page 63) contains detailed information, by country, of the Radio Stations and broadcasting organisations of every country in the world, including names and addresses of broadcasting companies, names and titles of leading officials, lists of broadcasting stations in each country including frequencies, wavelengths, transmitter power, call signs (if used), and station names. Programme information is also listed, including times, frequencies, and beam areas of the broadcasts in each language. The announced **location** of the station, relay stations excepted, is usually the studio and administrative location, since the transmitters are often located in outlying areas **Power** is stated in kilowatt (kW) or Watt (W). When two powers are listed, the figures represent the lower and upper limits of power, where a station uses more than one tr. on the frequency at different times (SW) or varies the power of the tr. for day and night operation (MW).

A listing by frequency of the shortwave stations of the world and long and mediumwave stations by continents is presented in the last part of the Handbook, for use in facilitating the identification of stations.

Abbreviations: See page 38 for explanation.

Shortwave stations may be used either for domestic broadcasting to listeners in the same country or for international broadcasting directed to listeners in other countries.

International shortwave stations usually employ directional antennas to beam their programmes to particular areas on frequencies calculated for best reception. Most international broadcasts are scheduled for the evening hours to the intended reception area, but some are in the morning or at other times during the day. The reception areas give their names to the services: European Service (or to Europe), Far Eastern Service (or to Far East), North American Service (or to North America), etc. Languages employed are those of the listeners in the area to which the broadcast is directed, also the language of the transmitting country for reception by persons understanding that language.

Best reception is usually obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programmes beamed to adjacent areas and, sometimes, even of programmes directed to distant parts of the world. Shortwave propagation conditions change continually because of the influence of daylight and darkness, seasonal effects and solar activity. Consequently, good reception requires frequency change from time to time.

(See articles: "Radio Broadcast Reception Conditions 1977" "Solar Activity in 1977" on the respective pages.)

Domestic shortwave stations are usually of lower power than international stations, and generally use non-directional or wide beam antennas, in order to reach local or national audiences. These stations make fewer seasonal frequency changes, and many operate on the same channel for both day and night operation. The stations are utilized to reach areas of a country where coverage by medium and longwave stations is not adequate.

The geographical coordinates of the transmitter sites are given in degrees and minutes.

Long and mediumwave stations are used mainly for programmes to listeners in the country in which the stations are located. These stations vary from powerful transmitters capable of being heard throughout the country to low power stations intended only for a small area in the vicinity of the transmitter.

FM (frequency modulation) stations operate on very high frequencies (VHF); ranges of 66-72MHz in Eastern Europe, 88-108MHz in the Americas and 87-100MHz in other areas, and provide interference free reception over a short radius. Most FM stations relay programmes of a medium or longwave station, except in North America, where most FM stations are now programmed independently most of the time.

Frequency and wavelength: Frequencies are measured in kilohertz (kHz) and megahertz (MHz). One Hertz (named after the German physicist Heinrich Hertz) signifies "one cycle per second" and accordingly, one kilohertz (kHz) equals one kilocycle per second (kc/s). Wavelengths are measured in meters.

A formula showing the relationship between frequency and wavelength is as follows:

$$\text{Wavelength (m)} = \frac{300000}{\text{Frequency (kHz)}}$$

$$\text{Frequency (kHz)} = \frac{300000}{\text{Wavelength (m)}}$$

Most broadcasting stations announce frequencies in kilohertz or megahertz. A kilohertz is 1000 hertz. A megahertz is 1000 kilohertz.

Due to the propagational conditions, interference by other stations, jamming, malfunction of transmitter, reallocation of frequencies by a country or convention, or for some other reason, stations may use frequencies which are at variance with the frequency(ies) indicated in this handbook.

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Beams: The azimuth of maximum radiation of the transmitting antenna is given in degrees (clockwise) from true north, where such details are given by the respective stations.

Programme times used in the listings are based on the 24-hour clock. Midnight is 00.00 hours, 3 a.m. is 03.00 hours, 9 a.m. is 09.00 hours, and midday is 12.00 hours. Then, instead of starting another 12-hour cycle (p.m.), under the 24 hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hours, 10 p.m. is 22.00 hours, and so on until 23.59 (11.59 p.m.) is reached and a new 24-hour cycle starts. This system eliminates any confusion between times a.m. and p.m.

Time conversion: All programmes are listed in GMT (Greenwich Mean Time). To convert from GMT to your local time, refer to the World Time Table on page 58 to determine how many hours your time is ahead of or behind GMT, and add or subtract that amount in order to convert to your clock time. For quick conversion, it is useful to write the GMT hours, 00 to 24, down on one side of a sheet of paper, and then enter the correct local time opposite each GMT hour. Summertime or Daylight Saving time adds an hour to local time so this should be taken into account in countries where it is utilized.

Programme schedules: The programme schedules of many countries are divided into Home Services and Foreign Services. The Home Service programmes are arranged by language and by programme services or networks. The Foreign Service transmissions are generally arranged by beam area, and by language for each beam area. The times and frequencies of the programmes in each language are listed together in order to facilitate the determination of the times and frequencies of the broadcasts in each language.

Therefore, it you wish to hear a broadcast in a particular language from a country, refer to the listing for the country of the time and frequency of broadcasts in that language. Most broadcasts are transmitted on more than one frequency, so try the various frequencies listed, to determine which one is received best at your location.

Identification of stations: Most stations in Europe, Middle East, Africa and Asia identify by announcing their station name and location. Most stations in North America and Pacific (incl. Australia/New Zealand) identify by the use of a call sign of 3 to 5 letters or a combination of letters and figures, of which the first, or first 2, denote the nationality in accordance with the international list of prefixes. Most stations in Latin America use a call sign (sometimes not frequently announced), a station name, and location.

In addition, many stations use musical interval signals at sign on and between programmes in order to help listeners to find the station on their dial and identify it as the desired station. These interval signals are included in the country listings.

How to identify a station by frequency or wavelength: When you hear a station that is unknown to you, first try to determine some clue as to its identity by attempting to determine the language, noting the type of programme etc. Then, note the approximate frequency or wavelength indicated on your dial, and turn to the table "Shortwave stations of the World" in the back of the Handbook, and ascertain what stations operate in that vicinity. Next, check the programme listings to determine which of the stations are scheduled to operate at that time of day, and which are most likely to be audible at your location, depending on the power and distance away. For definite confirmation it may be desirable to wait for station identification (which for many stations is given frequently) or interval signal.

Frequency changes: The frequencies listed are those which were scheduled for use at the time of publication. However, due to a number of reasons, including interference and changes in propagation conditions, it may be necessary for a country to make frequency changes. Often only one of the frequencies on a programme will be changed, so the new frequency can be determined by tuning in the other frequencies and listening for the announcement of the frequencies being used.

Interference: Due to the present crowded condition of medium and shortwave broadcasting bands, interference may be encountered from other stations operating on the same or closely adjacent frequency. In addition to interference from other broadcast stations, there may also be interference from "jammers", which transmit a variety of noises in an attempt to prevent certain foreign broadcasts from being heard in the country operating the jammers. When interference is encountered try another of the listed or announced frequencies, if several are in use, or try a broadcast at another time.

Reception from hard-to-hear countries: If you wish to hear a station or programme from a particular country, refer to the listing from that country, determining first whether it has any broadcasts beamed towards your area or adjacent areas. If not, refer to the frequency, time and power listing to determine where and when reception might be possible. Also, note the bands and times when stations in other countries in that part of the world are audible. It is possible to hear from many distant stations, even if they do not beam programmes to your area, by listening when the propagation and clearness of channel conditions are favourable. About propagation conditions please refer to "Table of the Most Suitable Broadcasting Bands, 1977" on page 37.

Verification by QSL-card: As indicated in the programme listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or letter. Most **international** broadcasting stations do not require enclosure of return postage and will reply with a QSL-card or letter. **Domestic** broadcasting stations do not normally request reports from foreign listeners, so return postage should be sent with reports to these stations. Return postage should be sent in the form of an International Reply Coupon (IRC), obtainable at post offices in most countries. Reports should be sent to the station address given in the country listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

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Reception reports are useful to radio engineers in selecting the most suitable frequencies for broadcasts beamed to your area. Reports are preferred in the SINPO code, which is as follows:

S (Signal Strength)	**I (Interference)**	**N (Noise)**
5 excellent	5 nil	5 nil
4 good	4 slight	4 slight
3 fair	3 moderate	3 moderate
2 poor	2 severe	2 severe
1 barely audible	1 extreme	1 extreme

P (Prop. Disturb)	**O (Overall Merit)**
5 nil	5 excellent
4 slight	4 good
3 moderate	3 fair
2 severe	2 poor
1 extreme	1 unusable

Electric currents: For countries where information is available the type and frequency of current has been included; also, you will find in parentheses an indication of the frequency stability; if stable enough for electric clocks (yes) if not (no).

Information about **television stations** is provided in the section following the radio section, including names and addresses of television companies, location, system used, power and channel of television stations, and programme schedules of these stations.

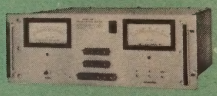
With reference to the first television page we list a table of the various television systems used throughout the world, and give a short explanation of some of the technical words and figures mentioned – The announced **location** of the station is usually the studio location, since most TV tr's are situated upon the highest location in the area in order to obtain more widespread coverage – Two systems of **modulation** are used to transmit the audio signal of the TV st's: either frequency modulation (FM) or amplitude modulation (AM). All videa transmissions are normally amplitude modulated – **Polarization** signals are horizontally polarized (H) or are vertically polarized (V). Polarization is usually selected according to the need for a reduction or interference with other stations, or to obtain engineering standards required by the government of the country in which the station is located – The **band width** is shown in MHz and represents the limits within which both the video and audio transmitters are contained – **Number of lines** transmitted express the number necessary to form one complete frame or picture, and **frames** state the number of times per second the picture area is completely scanned – **Video and audio power** is indicated in kilowatt (kW) or Watt (W). In most cases the figures denote the effective radiated power (ERP) from the stations due to the stations' antenna system.

Video and audio frequency is stated in MHz. The relationship between the quoted figures and the limits of the video band varies among other countries and can be determined by reference to the standards of the systems used by the respective countries.

As **colour television** has been introduced in many countries we also indicate the system adopted by each country where this information has become available.

DELTA . . . .
for Antenna Monitoring/Testing

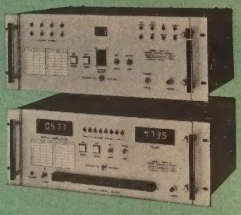
Directional Antenna Monitoring



AAM-1 ANALOG ANTENNA MONITOR – FCC type approved. Provides accurate true ratio and phase readings. Ratio readings are automatically corrected for variations in reference tower amplitude. Easy to interface with existing control systems, or may be used with our TMCS-2 system for remote control and monitoring of both the AAM-1 and your transmitter.

DAM-1 DIGITAL ANTENNA MONITOR – FCC type approved. Provides digital readout of amplitude, ratio and phase. Phase display is average of 512 measurements, thereby minimizing modulation effects. Also available: DAMA-1 Base Current Adapter for remote digital readout of antenna base currents; DAMX-1 to extend capacity of DAM-1 up to 12 towers.

Transmitter/Antenna Remote Control



TMCS-1 TRANSMITTER/ANTENNA REMOTE CONTROL SYSTEM – Provides digital readout and control of the DAM-1 and transmitter over a single voice channel. Other systems available: DAMR-1/DAML-1 for digital readout and control of the DAM-1 only; DAMH-1 for use where the remote control point is close enough to the monitor to permit hardwired inter-connection.

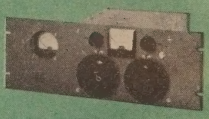
TMCS-2 TRANSMITTER/ANTENNA REMOTE CONTROL SYSTEM – Controls and monitors the AAM-1 analog antenna monitor and up to 30 transmitter functions – digital readout on both units.

Measurement/Test Instruments

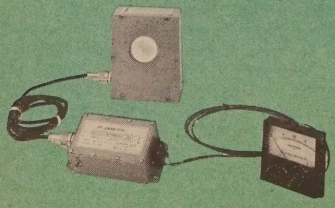
OIB-1 OPERATING IMPEDANCE BRIDGE – For antenna system measurements under transmitter power. May also be used as a conventional bridge.

RG-1B RECEIVER/GENERATOR – Two-watt signal generator with a tracking detector. Built-in rechargeable battery power supply for full portability in making low power impedance measurements. For use with OIB-1 or other RF bridges.

CPB-1 COMMON POINT IMPEDANCE BRIDGE – Monitors common point impedance continuously. Designed for permanent installation.



Other Products



TCT-( ) TOROIDAL CURRENT TRANSFORMER – Provides accurate, stable R.F. samples for phase and amplitude measurements. Available in three sensitivities. Also available: TCTR-1 Compensated Rectifier Circuit to provide DC voltage for remote current measurement when used with TCT-( ).

TCA RF AMMETER – Uses toroidal transformer and separate precision meter-rectifier unit. Replaces base and common point thermocouple meters. Single and dual ranges up to 80 amperes.

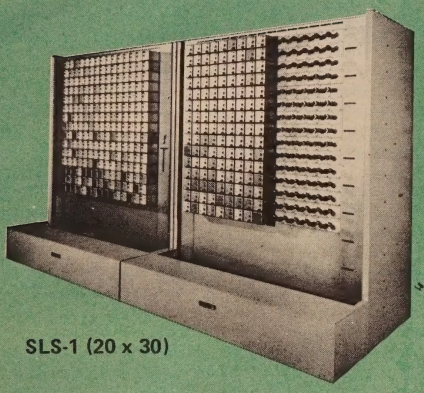
MJ-50 METER JACK – A make-before-break in-line jack assembly that permits "hot" insertion of OIB-1 Bridge or Ammeters.

DELTA ELECTRONICS

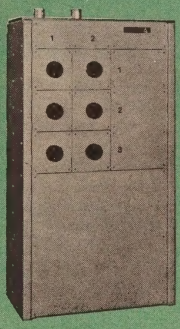
5534 PORT ROYAL ROAD
SPRINGFIELD, VIRGINIA 22151
TELEPHONE: 703/321-9845 TWX: 710-831-0620

DELTA . . . .

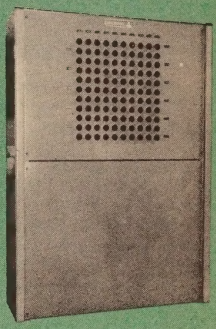
for Antenna Switching



SLS-1 (20 x 30)

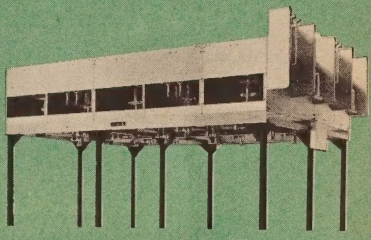


SLS-3 (2 x 3)

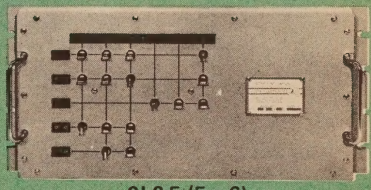


SLS-4 (10 x 11)

Delta offers a complete line of antenna switching matrices for both single and balanced line applications, with power ratings from 1 to 300 kilowatts. All models use Delta's modular design concept, which make it possible to supply virtually any matrix configuration. Other design features insure "cold" switching and prevent improper transmitter/antenna connections. Switching consists of mechanically establishing an electrical connection at a selected crosspoint of the matrix, and can be accomplished either manually or by a motor actuator. When equipped with actuators, a matrix can be remotely controlled by various types of matrix control units, including the DRCS-2A (illustrated) which provides complete control and status verification for matrices up to 29 x 39 over a single voice quality telephone or radio circuit.

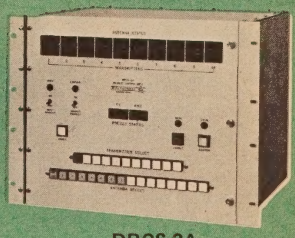


BLS-2 (2 x 8)



SLS-5 (5 x 6)

Model	Frequency	Power Capacity	Impedance
SLS-1	DC to 32 MHz	80 kW Average, 320 kW Peak with unity load VSWR	50 ohms Coaxial
SLS-3	DC to 32 MHz	300 kW Average, 1,200 kW Peak with unity VSWR	50 ohms Coaxial
SLS-4	DC to 300 MHz	20 kW Average, 100 kW Peak to 32 MHz with unity VSWR; 3 kW Average, 10 kW Peak to 300 MHz with unity VSWR	50 ohms Coaxial
SLS-5	DC to 400 MHz	4 kW Average, 20 kW Peak to 32 MHz with unity VSWR; 1 kW Average, 10 kW Peak to 400 MHz with unity VSWR	50 ohms Coaxial
BLS-2	DC to 30 MHz	150 kW carrier power with 100% A3 modulation and 2:1 VSWR	300 ohms
BLS-3	DC to 30 MHz	300 kW carrier power with 100% A3 modulation and 2:1 VSWR	300 ohms



DRCS-2A

DELTA ELECTRONICS

5534 PORT ROYAL ROAD
SPRINGFIELD, VIRGINIA 22151
TELEPHONE: 703/321-9845 TWX: 710-831-0620

COMMENT UTILISER LE WORLD RADIO TELEVISION HANDBOOK

Le World Radio TV Handbook a pour but de venir en aide aux auditeurs de la radio internationale afin qu'ils puissent obtenir le maximum de satisfaction avec leur récepteur.

La première partie de l'ouvrage est consacrée aux émetteurs et donne des informations sur les organismes de radio et de télévision du monde entier.

La majeure partie de cet ouvrage (à partir de la page 63) contient des informations très détaillées sur les stations de radiodiffusion avec leurs noms, leurs addresses et les compagnies émettrices, sont inclus également les noms des principales personnalités officielles, la liste des stations de radio et de leurs fréquences et longueurs d'onde, la puissance de l'émetteur et son indicatif.

On trouvera également des informations sur la nature du programme, les heures de diffusion, les régions désservies, et les émissions dans chaque langue.

L'emplacement de la station qui est annoncée sur l'antenne n'est généralement que le lieu administratif ou le studio.

Les émetteurs sont parfois situés dans une autre région.

La puissance est indiquée en kilowatt (kW) ou en Watt (W).

Lorsque deux puissances sont mentionnées le plus grand chiffre indique la puissance maximale que la station utilise pendant ses heures de diffusion (OC) et la variation de puissance entre le jour et la nuit (OM).

L'écoute par fréquence ou longueur d'onde des stations de radiodiffusion ondes courtes du monde et des stations ondes longues et moyennes est présentée par continents pour en faciliter l'identification.

Abréviations: voir page 42 pour explications.

Stations ondes courtes: peuvent être utilisées pour l'usage domestique du pays ou pour diffuser des programmes vers les pays étrangers.

Stations ondes courtes internationales: elles emploient généralement des antennes directionnelles pour des régions bien déterminées sur des fréquences appropriées (calculées pour une écoute maximum dans la zone de diffusion). La plupart des stations de diffusion ondes courtes emettent à partir de la soirée vers les différentes régions du globe.

Certaines ont toutefois des émissions le matin ou à d'autres moments de la journée.

La région de réception donne le nom du service d'émission.

Ainsi le service européen indiquera qu'il s'agit de programmes vers l'Europe, le service asiatique (vers l'Asie), le service nord-américain (vers l'Amérique du Nord) etc.

Les langues employées sont celles parlées par les populations desservies par les émissions.

La meilleure réception est logiquement obtenue par l'émetteur qui diffuse vers la région où l'on se trouve. Il est cependant possible que les pays riverains puissent capter le même programme dans les mêmes conditions.

Les conditions de propagation sur ondes courtes changent continuellement en raisons de l'influence de la lumière du jour et de l'obscurité, de même que pour des raisons de saisons ou de l'activité solaire. C'est pour cette raison qu'une bonne écoute requiert de temps en temps changements de fréquence.

(voir articles: "Radio Broadcast Reception Conditions 1977", "Solar Activity in 1977" sur les pages respectives.)

Stations ondes courtes domestiques: utilisent des puissances faibles et des antennes non-directionneles ou bien circulaires. Elles sont destinées à l'usage locale ou nationale du pays. Ces stations changent de fréquence en fonction de la saison, mais la plupart opèrent sur des fréquences fixes.

Ces stations sont utilisées pour couvrir des régions qu'il est impossible d'arroser par les ondes moyennes ou longues.

Les coordonnées géographiques des émetteurs en question sont indiquées en dégrés et en minutes.

Stations ondes longues et moyennes: utilisées pour transmettre des programmes pour les auditeurs du pays où sont situés les émetteurs.

Quelques stations ont des puissances relativement importantes qui sont capables de couvrir un très large territoire.

D'autres dont la puissance est faible ne sont audibles que dans un rayon très restreint autour de l'émetteur.

Les fréquences sont mesurées en kilohertz (kHz) ou en Mégahertz (MHz).

Un Hertz (nom tiré du physicien allemand Heinrich Hertz) équivaut à "un cycle par seconde" et un kilohertz (kHz) est égal à un kilocycle par seconde. Les longueurs d'onde sont mesurées en mètres.

La formule permettant de connaître la fréquence si l'on connaît la longueur d'onde ou vice-versa est la suivante:

$$\text{Fréquence (kHz)} = \frac{300000}{\text{Longueur d'onde (mètres)}}$$

$$\text{Longueur d'onde (m)} = \frac{300000}{\text{Fréquence (kHz)}}$$

La grande majorité des stations annoncent les fréquences en kilohertz ou en Mégahertz. Un kilohertz équivaut à 1000 Hertz. Un Mégahertz = 1000 kilohertz.

En raison des conditions de propagation, d'interférences avec les autres stations, du brouillage, d'un mauvais fonctionnement de l'émetteur, d'une nouvelle répartition de fréquence dans le pays ou par suite d'une convention inter-

Faster Visual Presentation

Speed is decisive. For example in television. News items and world-wide communications are effective only if the current is truly presented. And yet, satellites and giant transmitters are not enough. The film material for illustrations and copies must be processed equally quickly to be newsworthy.
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Agfa-Gevaert offers the professional film makers what they need. Not just individual products, but a fully developed, progressive, easy to use film system. Negative and reversal films, optical and magnetic sound films, films for theatre and TV prints, filters and chemicals. And a service which such a programme requires. A service famous for its quality. Agfa-Gevaert – the professionals' partner.

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nationale, ou encore pour tout autre raison, il est possible que les fréquences indiquées dans cet ouvrage ne correspondent plus.

Stations FM (Fréquence Modulée).

Les émetteurs FM opèrent sur des très hautes fréquences (VHF) qui sont situées entre 66-72MHz pour le pays d'Europe de l'Est et entre 88-108MHz pour les Amériques. La plage de fréquence située entre 87 et 100MHz est employée dans les autres pays du globe. La FM rayonne un champs restreint autour du périmètre de l'émetteur. L'émission FM ne vehicule pas en principe de parasites radioélectriques, sauf si le rayonnement de l'émetteur reste faible. Dans ce procédé c'est la fréquence du signal et non plus son amplitude qui varie en fonction du volume sonore.

La plupart des stations FM font office de "relais" et diffusent les programmes OM ou OL du réseau national, excepté en Amérique du Nord ou les émetteurs sont autonomes. La FM permet une meilleure "bande passante", donc une réception beaucoup plus claire.

Rayonnement

L'Azimut d'une antenne-émettrice est indiquée en degrés (dans le sens des aiguilles d'une montre) en partant du Nord.

Ces précisions figurent sur les stations respectives.

L'heure de diffusion qui est indiquée peut être lue sur une base-horaire de 24 heures. Une autre solution employée par les stations est la suivante: Minuit correspond à 00.00 heures.

3 a.m. indique 03.00 heures, 9 a.m. 09.00 heures et midi 12.00 heures.

Après la première période de rotation complète de l'horloge (12.00) les indications peuvent être données avec le système ci-après.

3 p.m. correspond à 15.00 heures, 10 p.m. à 22.00 heures et inversement 23.59 heures = 11.59 p.m.

Le système horaire que nous préconisons a l'avantage d'éliminer toute confusion possible avec les temps a.m. et p.m.

Conversion du temps

Tous les programmes sont données en heures GMT (Greenwich Mean Time = Temps Moyen de Greenwich).

Pour convertir les heures GMT en heures locales, veuillez vous référer au tableau des fuseaux horaires page 58.

Il vous permettra de déterminer les heures à retrancher ou à ajouter à l'heure GMT pour obtenir l'heure locale de votre région.

Programmes horaires

La liste des programmes de nombreux pays est divisée en "service intérieur" et en "service étranger".

Le service intérieur est le programme qui est destiné à la population locale du pays. Il est diffusé dans la langue parlée du pays (ou les langues . . .)

Le service étranger est l'émanation de programmes en langues étrangères-qui sont destinés vers des régions bien précises.

Les horaires et les langues de diffusion sont indiquées sur des listes horaires que font parvenir les stations aux auditeurs. Lorsque vous désirez écouter un programme particulier, il vous suffira de noter l'heure et la fréquence sur la liste-horaire et d'essayer de vous brancher sur la station. Il peut arriver que les stations dont les émissions sont émises sur plusieurs fréquences ne puissent être reçues que sur un seul canal. Il sera alors important de retenir cette fréquence pour vos écoutes futures en cas ou l'écoute de la même station est envisagée.

Identification des stations

De nombreuses stations en Europe, au Moyen Orient, en Afrique et en Asie sont identifiées grâce à l'annonce du nom de l'émetteur.

Certaines radios d'Amérique du Nord et du Pacifique (Australie et Nouvelle Zéland) utilisent des signaux d'appels de 3 à 5 lettres (ou indicatif).

Il s'agit d'une combinaison de lettres et de chiffres dont les deux premiers indiquent le pays suivant la liste de préfixes établie d'après des accords internationaux.

Plusieurs stations de radiodiffusion d'Amérique Latine utilisent ce même système (le signal d'appel est cependant peu annoncé).

L'identification de la station peut également être reconnue grâce à un signal interval musical qui est joué pendant un certain temps.

Il permet aux auditeurs de reconnaître la-station et le cas échéant de se reporter sur l'émetteur désiré. Ces signaux musicaux sont donnés en dessous de chaque pays.

Comment identifier une station par fréquence ou longueur d'onde?

Lorsque vous captez une station qui vous est inconnue, la première solution consiste à déterminer la langue. Il faudra ensuite déterminer le type d'émission et noter approximativement la fréquence ou la longueur d'onde indiquée sur le cadran de votre récepteur.

Ensuite reportez-vous a la table des émetteurs ondes courtes du monde et assurez-vous que la station corresponde bien aux caractéristiques notées. Il faut également tenir compte de la puissance de l'émetteur et savoir reconnaître si l'émetteur a une chance d'être entendu dans votre région.

En definitive la meilleure solution consiste à identifier le signal interval de la station qui est fréquemment diffusé sur les ondes.

Changement de fréquence

Les fréquences mentionnées dans cette publication sont celles reçues au moment de l'impression.

Pour des raisons diverses, notamment en relation aves les conditions de propagation, un pays peut être amené à modifier sa fréquence d'émission.

Les nouvelles fréquences sont généralement annoncées sur les ondes.

Interférences

La multiplicité des émetteurs qui occupent les bandes ondes courtes et moyennes est la cause principale des interférences.

Elles sont occasionnées par un émetteur qui occupe la même fréquence ou qui émet sur une fréquence adjacente.

L'interférence peut également provenir des émetteurs de brouillage. Ils ont pour but d'empêcher les émissions d'être entendues dans le pays d'où partent les dérangements.

Pour contourner les difficultés d'écoute de nombreuses stations utilisent plusieurs fréquences ou rediffusent le même programme à un autre moment de la journée.

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La réception des pays difficilement audibles

Lorsque vous désirez écouter une station ou un programme d'un pays particulier la première vérification qui s'impose est de savoir si l'émission est destinée à la région ou à un pays riverain.

Réferez-vous ensuite à la fréquence et à la puissance de l'émetteur et assurez-vous si l'écoute est possible. Il convient également de noter si les stations des autres régions du globe sont audibles sur les mêmes bandes ondes courtes ou moyennes et aux mêmes heures de diffusion.

Il est possible de capter des émetteurs de faible puissance qui n'ont pas de vocation international à condition que la propagation des ondes soit satisfaisante, et que les canaux de diffusion soient libres.

Au sujet des conditions de propagation veuillez vous référer à la table intitulée "Table of the Most Suitable Broadcasting Bands 1977" page 37.

Vérification par carte QSL

De nombreuses stations sont intéressées par les rapports de réception que leurs envoient les auditeurs touchés par les émissions.

En guise de remerciement, et seulement lorsque le rapport est conforme aux programmes émis, la station répond par l'envoi d'une carte appelée QSL ou de vérification, et quelquefois par lettre.

En ce qui concerne les stations de diffusion internationales il n'est pas nécessaire de joindre des frais d'affranchissements pour obtenir une réponse.

Il n'en va pas de même pour les stations domestiques où les rapports de l'étranger n'ont évidemment pas le même intérêt.

Si vous désirez toutefois envoyer un rapport d'écoute à l'une des stations en question il sera recommandé d'ajouter plusieurs coupons réponse internationaux qui peuvent être obtenus auprès de la poste.

Pour connaître les adresses des stations vous pourrez évidemment consulter le manuel.

Les rapports d'écoute destinés aux radios d'Amérique Centrale et du Sud doivent être rédigés de préférence en Espagnol. Dans la majorité des cas des rapports rédigés en Anglais conviennent parfaitement.

Des formulaires d'écoute prêts à être remplis sont généralement envoyés aux auditeurs. Les rapports seront de préférence remplis suivant le code SINPO dont la signification est la suivante:

S(Force du signal)	**I (Interférence)**	**N (Bruits atmosphériques**
5 Excellente	5 Nulle	5 Néant
4 Bonne	4 Légère	4 Légers
3 Claire	3 Modérée	3 Modérés
2 Pauvre	2 Forte	2 Puissants
1 A peine audible	1 Très forte	1 Très puissants

P (Trouble de la propagation: fading)	**O (Appréciation globale)**
5 Néant	5 Excellente
4 Faibles	4 Bonne
3 Modérés	3 Satisfaisante
2 Fortes	2 Médiocre
1 Très fortes	1 Inutilisable

Courant électrique

Lorsque les informations sur la nature du courant électrique nous sont communiquées nous indiquons toujours le type et la fréquence du courant employés par le pays.

Entre parenthèse est indiquée la stabilité ou non du courant électrique. (Yes pour stable, No pour instable).

La partie de l'ouvrage consacrée aux **stations de télévision** contient les noms, les adresses, la situation de l'émetteur et les adresses des compagnies. On trouvera également la puissance de la station ainsi que le système utilisé et le canal de diffusion employé.

La première page de télévision est consacrée aux differents systèmes TV utilisés dans les divers pays.

L'annonce du nom de la station n'indique généralement que l'emplacement du studio. L'émetteur étant le plus souvent situé dans une autre région qui offre de meilleures perspectives d'écoute, généralement sur une hauteur.

Deux systèmes de **modulation** sont employés pour transmettre le signal du son en télévision: la modulation de fréquence (FM) ou la modulation d'amplitude (AM). La plupart des programmes TV se font toutefois en modulation d'amplitude.

Les programmes TV peuvent être transmis en **polarisation** horizontale (H) ou verticale (V). Le système de polarisation permet une meilleure sélection de l'image et une réduction accrue de l'interference.

La largeur de la bande est représentée en MHz et exprime l'écart entre la porteuse du son et de l'image.

Le nombre de lignes nécessaire pour former une image varie dans plusieurs pays. Il est de 525 lignes aux Etats Unis et au Japon, de 405 lignes au Royaume Uni et de 819 lignes en France, Monaco et Luxembourg. Cette dernière définition sera cependant abandonnée dans les anneés a venir au profit de 625 lignes qui est adopteé dans l'ensemble des pays européens.

La puissance du son ou de l'image est indiquée en kilowatt (kW) ou en Watt (W).

Dans l'ensemble les indications de puissance sont exprimées en Puissance Apparente Rayonnée (PAR) (ERP=PAR).

Ceci est dû à l'effet de système d'antenne qui rayonne un champs que l'on peut qualifier de maximum.

La fréquence-image et son est exprimée en MHz. Elle varie d'un pays à un autre. Les caractéristiques des différents systèmes employés sont donnés par le tableau des standards.

La **télévision couleur** a été introduite dans bons nombre de pays. Le système technique adopté par chaque pays est indiqué dans la mesure où ces renseignements nous sont communiqués.

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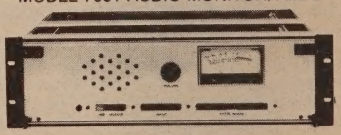

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COMO UTILIZAR EL WRTH (GUIA MUNDIAL DE RADIO Y TELEVIVION)

La intención del WRTH es de dar al lector la máxima ayuda posible al sintonizar las ondas nacionales e internacionales.

La primera parte del libro contiene algunos artículos informativos referentes a la radiodifusión y datos sobre las organizaciones internacionales de radio y TV.

La parte principal del libro (a partir de la pág 63), comprende, ordenados por paises, datos detallados acerca de las emisoras de radiodifusión en todo el mundo.

El capítulo dedicado a cada a país incluye la razón social y dirección postal de toda emisora allí existente, asi como la nomina de sus principales directivos. Las listas de frecuencias y longitudes de ondo, correspondientes a cada empresa, abarcan su potencia respectiva, así como sus siglas de identificación en los países donde éstas sean utilizadas. De igual manera, se incluyen datos como lengua empleada durante un horario determinado lo mismo que el área geográfica destino de dicha transmisión.

La ubicación anunciada por una emisora, salvo en el caso de retransmisores, se refiere normalmente al lugar de los estudios y de las oficinas administrativas y no al lugar donde están situadas las antenas. (Las coordenadas geográficas de las antenas se expresan en grados y minutos).

La potencia se expresa en kilovatios (kW) o vatios (W). Si se indican dos potencias las cifras se refieren a la potencia máxima y mínima en casos cuando se utilican más de un transmisor para una misma frecuencia, ya sea a distintas horas como puede ser al caso en onda corta, ya seal al tratarse de transmissiones diurnas o nocturnas como puede ser el caso en onda media.

Al final del libro se hallan, clasificadas por orden de frecuencia y longitud de onda, todas las estaciones da onda larga, media y corta en el mundo. Mediante la consulta de esta lista se facilitará an alto grado la tarea de identificación de emisoras desconocidas.

Abbreviaturas. Véas la pág 44, y su correspondiente traducción al español.

Emisiones en onda corta: La onda corta puede usarse tanto para cubrir un área determinada, dentro de un país dado, como para servicios internacionales.

Las emisoras internacionales de onda corta utilizan, por regla general, antenas direccionales. Las frecuencias son estudiadas para permitir que un área determinada sea servida de manera óptima.

La mayoría de la emisoras internacionales utilizan horarios de transmisión de tarde y noche en sus áreas de recepcion; muy pocas en cambio, emiten en horas de mañana o durante el dia. Las recepción sirven de denominador de servicio. Por ejemplo "European Service" (Servicio Europeo), "Latin American Service" (Servicio Latino-americano), etc.

Las lenguas utilizadas son aquellas as que se hablan en la región de destino, aunque también hay emisiones en la lengua del país desde donde se origina la transmisión. Los programas dirigidos a la zona en donde reside el oyente son los que, normalmente, darán la mejor calidad de recepción. Existe, sin embargo, la posibilidad de captar en buenas condiciones las transmisiones destinadas a otras regiones cercanas al lugar donde vive el oyente. Las condiciones de propagación cambian contínuamente según sea de día o de noche. Las condiciones de propagación de la onda corta cambian constantemente del día a la noche debido a la influencia de la luz y de la oscuridad, amén de los cambios estacionales y los causados por la actividad solar. En consecuencia, hace falta cambiar de onda con cierta asiduidad si se quiere obtener una buena recepción. Los articulos "Radio Broadcasting Reception Conditions 1977" (Las condiciones de receptión de transmisiones radiófónicas en 1977), "Solar Activity in 1977" (La actividad solar en 1977), deberán consultarse en sus páginas respectivas.

Las emisoras de onda corta de âmbito local o nacional utilizan, generalmente, una potencia en antena más pequeña que las emisoras internacionales. También suelen servirse de antenas poco o no direccionales para cubrir regiones del país en cuestión que no son adecuadamente servidas por la onda media.

Las emisoras de onda larga y media transmiten, en principio, para el país en que están ubicadas. La potencia de estas emisoras varia desde centenares de kW, lo que permite una audición en todo el país, hasta emisoras de pequeña potencia proyectadas para servir una limitada región a su alrededor. (Nótese que la onda larga de América Latina corresponde a la onda media de Europa. Se trata de las frecuencias comprendidas entre 540 y 1660 kHz en América, 520-1602kHz en Europa. La onda larga europea abarca la banda de 151-433kHz).

Las emisoras de FM (frequencia modulada) operan en la banda ultra corta (VHF, very high frequency), en frecuencias comprendidas entre 66 y 72MHz en Europa Oriental, 88 y 108 en las Americas y 87 a 100 en las demás regiones. Estas emisoras ofrecen una recepción libre de interferencias dentro de un radio muy limitado. La mayoría de la emisoras de FM retransmiten la programación de una emisora de onda corta u onda media, salvo en Norteamérica, donde la mayoría ofrece una programación independiente. En algunos paises de América Latina las emisoras de FM sirven, en primer término, para enlazar el estudio con los transmisores de onda corta y onda media.

Frecuencia y longitud de onda: La frecuencia se mide en kilohertzios (kHz) o megahertzios (MHz). Un Hertzio (del físico alemán Heinrich Hertz) equivale a un ciclo por segundo (c/s). La longitud de onda se mide en metros, He aquí dos fórmulas matemáticas que muestran la relación entre frecuencia y longitud de onda:

$$\text{Longitud de onda (m)} = \frac{300.000}{\text{Frecuencia (kHz)}}$$

$$\text{Frecuencia (kHz)} = \frac{300.000}{\text{Longitud de onda (m)}}$$

La mayoría de las emisoras internacionales anuncian su frecuencia en kHz o MHz. Un kHz equivale a mil hertzios. Un MHz equivale a mil kHz. Por razones de propagación, inteferencias, malfuncionamiento del equipo transmisor, etc., puede darse el caso de que ciertas emisoras utilicen frecuencias que no concuerden con las que se publican en este libro.

Antenas direccionales: El azimut de irradición de la antena se expresa en grados. Los datos publicados son los que fueron facilitados por las respectivas estaciones radiofusoras.

Los horarios se expresan según el sistema de 24 horas. Media noche corresponde a 00.00 horas. Las tres de la madrugada (3 a.m.) a las 03.00 horas, mediodía a las 12.00 horas, las tres de la tarde (3 p.m.) corresponde a las 15.00 horas y así, sucesivamente, hasta llegar a las 23.59 horas (11.59 p.m.). Este sistema elimina cualquier confusión que se pudiera producir al utilizar el sistema de a.m. y p.m.

Conversión de horarios: Todas la horas señaladas son GMT (Greenwich Mean Time, hora del meridiano de Greenwich). Para convertir la hora Greenwich a su hora local véase la tabla internacional de horarios en la pág. 58 para determinar la diferencia entre su hora local y GMT. Para efectos de conversión rápida podría ser prático anotar en una hoja de papel en sentido vertical las horas GMT 00.00 hasta 24.00, agregando en el mismo renglón, al frente, la correspondiente hora local.

El horario veraniego (Summertime, Daylight Saving Time) adelanta una hora con respecto a la hora normal, cosa que deberá tenerse en cuenta para lograr la conversión exacta.

Horario de programación: En la relación geográfica por países figuran, muy a menudo, los apartados denominados "Home Service" y "Foreign Service". El "Home Service" (Programa nacional) es el que se dirige para los oyentes locales. Suele subdividirse en cadenas (inglés: Network) o según la lengua utilizada. Las transmisiones destinadas al extranjero (Foreign Service) se clasifican, generalmente, o bien según la región servida o bien du acuerdo a la lengua empleada.

Si se desea escuchar una emisión en un idioma determinado, consúltese, en la relación del país en cuestión, el horario y las frecuencias utilizadas para dicho programa. La mayoría de las emisiones son transmitidas en más de una frecuencia para permitir la consecución de una buena recepción en diferentes regiones geográficas.

La identificatiôn de una emisora: La mayoría de las emisoras de Europa, Oriente Próximo, Africa y Asia, se identifican dando el nombre de la emisora y su ubicación. Las emisoras de Norte-américa y la región del Pacífico, incluyendo Australia y Nueva Zelanda, se identifican mediante unas siglas (inglés: Call sign) de tres a cinco letras o una combinación de letras y cifras. La primera o las dos primeras letras identifican el país de acuerdo con la lista international de prefijos. La mayoría de las emisoras latinoamericanas se valen de unas siglas, un "slogan" y el anuncio de la ubicación. Muchas emisoras, al comenzar sus transmisiones, y en pausas entre los programas, se sirven de una señal de intervalo cuyo objeto es facilitar la sintonia e identificacion de la emisora. El pentagrama de estas señales se encontrará en la relación geográfica.

Cômo identificar una emisora basândose en su frecuencia o longitud de onda: Al sintonizar una emisora desconocida trátese primero de determinar la lengua en que transmite así como el tipo de programación, para sacar así alguna conclusión en cuanto a su procedencia. Luego fíjese en la frecuencia o longitud de onda aproximadas que indica el dial de su receptor, averiguando seguidamente por la relación de frecuencias al final del libro cuales son las emisoras que se encuentran en y alrededor de la frecuencia sintonizada.

Hecho este control, pásese a la relación geográfica para determinar cuales de las emisoras sospechadas transmiten en dicha lengua a la hora y en la frecuencia en cuestión, considerando al mismo tiempo cual de las emisoras sería la más susceptible de escucharse, a juzgar por la potencia y situacion geográfica. Para tener una confirmación definitiva es aconsejable esperar a que se identifique la emisora, o a que dé su señal de pausa.

Cambios de frecuencias: Las frecuencias publicadas son aquellas que se usaban oficialmente a la hora de cierre de la publicación. Estas frecuencias son, sin embargo, susceptibles a cambios debido a varias razones: interferencias, cambio de las condiciones de propagación, etc. A veces tan solo una o dos de la frecuencias usadas son cambiadas, pudiéndose determinar el cambio efectuado mediante le escucha de los anuncios que se hagan al respecto en cualquiera de las frecuencias inalteradas.

Interferencias: La congestión que afecta actualmente a las bandas de onda corta y media es una de las causas de las interferencias que se producen entre una y otra emisora. Además, abundan aquellas estaciones que no emiten otra cosa que ruido con el solo propôsito de impedir que ciertas emisiones se dejen escuchar en el país en donde se origina la emision de dichos ruidos. Estas emisoras se denominan en inglés "jammers", y el tipo de emisión que producen, "jamming". Si encuentra interferencia al escuchar una emisora convendría sintonizar otra onda, si hubiere, o volver a sintonizarla a una hora distinta.

Recepcion de paises lejanos: Si desea cazar una emisora o un programa de un país determinado, consúlte primero el capítulo dedicado a dicho país, cerciorándose si tiene o no programas dirigidos a su región o a alguna región cercana a la de su residencia. Si no es este el caso, fíjese en las frecuencias, horario de transmisiones y potencia para determinar en qúe frecuencia y a qúe hora pudiera ser posible la recepción, juzgando por la hora y banda en que se suelen escuchar normalmente estaciones de países limítrofes a cercanos al país deseado: Con estar a la expectativa en momentos de condiciones de propagación favorables, resultará posible, desde su país, la escucha de muchas y muy distantes

estaciones, aun cuando éstas no dirijan transmisiones a la región donde usted vive.

Sobre las condiciones de propagación véase el artículo "Table of the Most Suitable Broadcasting Bands 1977" (Cuadro de las bandas de radiodifusión más adecuadas para el año 1977), en la pàg. 37.

Confirmaciôn por tarjeta QSL: Como lo indican bien las fichas de la relación geográfica de este libro, hay muchas estaciones que desean recibir reportajes o informes de recepción (en España: controles) de parte de sus oyentes. Estas estaciones suelen acusar recibo de dichos informes por medio de una tarjeta QSL (en inglés: verification card) o una carta. Este es el caso de la mayoría de las emisoras internacionales.

La mayoría de las emisoras de ámbito nacional, por regla general, no se interesan demasiado por los informes de recepción procedentes de un país extranjero y para estas emisoras, a veces, es aconsejable y conveniente adjuntar al reportaje el valor del franqueo de una carta. Esto se hace por medio del llamado "Vale-respuesta internacional" (en inglés: International Reply Coupon, abreviado IRC) que puede comprarse y canjearse en las principales oficinas de correos de los países miembros de la Unión Postal Universal. Los reportajes pueden siempre redactarse en la lengua empleada por la estación y muchas veces también en inglés.

Los informes de recepción son de interés para los servicios técnicos de la estación a la hora de elegir una frecuencia adecuada para la transmisión a una región detérminada. Las emisoras internacionales prefieren el uso, por parte de sus oyentes, del código SINPO, el cual es como sigue:

Señal (Signal) QSA	**Interferencia (Interference) QRM**	**Estática (Noise) QRN**
5 Excelente	5 Ninguna	5 Ninguno
4 Fuerte	4 Ligera	4 Ligera
3 Normal	3 Moderada	3 Moderada
2 Pobre	2 Fuerte	2 Fuerte
1 Casi inaudible	1 Muy intensa	1 Muy fuerte

Fading (Propagation Disturbance) QSB	**Resumen (Overall Merit) QRK**
5 Ninguno	5 Excelente
4 Ligero	4 Bueno
3 Moderado	3 Bastante bueno
2 Notable	2 Pobre
1 Muy acentuado	1 Inservible

Un informe de SINPO 33443 indicará, por tanto, que las señales se recibieron con una fuerza normal (ni fuerte ni pobre), pero con alguna inteferencia, poca estática (QRN) y ligero desvanecimiento (QSB), con lo que la recepción pudo calificarse de bastante buena.

Coriente eléctrical: Esta información se ha incluido sobre todo para quienes viajan. Cuando es conocida se incluye también una indicación acerca de la estabilidad de la corriente. Si es lo suficientemente estable como para permitir el uso de relojes eléctricos se indica por "yes", si no por "no".

Después del capítulo dedicado a la radiodifusión se publica en forma resumida y por orden geográfico una relación de **las estaciones de TV** del mundo. Se incluyen datos como razón social, dirección postal, ubicación, sistema usado, potencia y canal así como su horario de transmisión.

La primera página del capítulo dedicado a la televisión contiene un cuadro de los sistemas usados en el mundo y explica brevemente algunos términos técnicos mencionados posteriormente.

La ubicación anunciada suele corresponder a la de los estudios, mientras que los transmisores en general se hallan en la cumbre más elevada de la región permitiendo así un alcance máximo de sus ondas.

Dos sistemas de **modulaciôn** son usados para la transmisión de la señal del sonido (inglés: audio) de las estaciones de TV, o bien AM (modulación de amplitud) o bien FM (modulación de frecuencia). La señal de video es generalmente del tipo de AM.

Polarizaciôn: Existen dos tipos: polarización horizontal (H) y polarización vertical (V). El tipo se elige según las necesidades de una reducción de interferencias o para conformar con las normas tecnicas requeridas por el gobierno del país respectivo. **La anchura de banda** se expresa en MHz y representa los límites dentro de los cuales operan las transmisiones de sonido y video.

El nûmero de lineas necesario para formar una imagen suele ser de 405, 525, 625 o, en ciertos países francofonos, de 819.

La potencia del sonido y del video: Las cifras en kW se refieren a la potencia irradiada efectiva (inglés: effective radiated power, abreviado ERP).

Ya que la televisión en color se ha introducido en muchos países también se indica el sistema adoptado por cada país.

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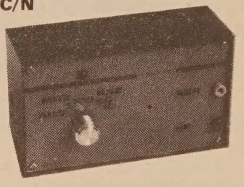

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WIE BENUTZT MAN DAS WORLD RADIO TELEVISION HANDBOOK

Sinn und Zweck des WRTVH ist es, dem Hörer internationaler Rundfunksendungen zu helfen, den bestmöglichen Empfang mit seinem Empfangsgerät zu erzielen.

Der erste Abschnitt des Handbuches enthält einige informative Artikel bezüglich Rundfunk allgemein sowie Mitteilungen über Rundfunk- und Fernsehanstalten.

Der Hauptteil des Buches (beginnend Seite 63) enthält nach Ländern geordnet detaillierte Informationen über Rundfunkstationen und – Organisationen aller Länder der Erde. Diese Informationen umfassen Name und Adresse der jeweiligen Rundfunkanstalt, Name und Titel der leitenden Angestellten, eine Liste der Rundfunkstationen des jeweiligen Landes, einschliesslich Frequenzen, Wellenlängen, Senderleistung, Rufzeichen (falls verwendet) und Namen der Stationen. Programmeinzelheiten werden ebenfalls aufgeführt und umfassen Sendezeit, Frequenz sowie Zielgebiet der Sendungen in allen Sprachen. Der angegebene **Standort** der Station, abgesehen von Relais-Stationen, ist in den meisten Fällen der Standort der Studios und der Verwaltung, da sich die Senderstandorte meist weit ausserhalb befinden. – Die **Leistung** wird in Kilowatt (kW) oder Watt (W) angegeben. Bei zwei Leistungsangaben bedeuten die beiden Zahlen die obere bzw, untere Grenze der Leistung bei Stationen, die für die gleiche Frequenz mehrere Sender zu verschiedenen Zeiten benutzen (Kurzwelle) oder bei Stationen, die unterschiedliche Leistungen für Tag- und Nachtbetrieb einsetzen (Mittelwelle).

Am Ende des Handbuches schliesslich befindet sich noch eine **Aufstellung** aller Kurzwellenstationen **nach Frequenzen geordnet** und aller Mittelwellenstationen nach Kontinenten geordnet. Beide erleichtern die schnelle Identifizierung von Stationen.

Abkürzungen: Siehe Seite 38 zur näheren Erklärung.

Kurzwellenstationen können sowohl zur Inlands-, also zur Versorgung der Hörer im eigenen Land, als auch zur Auslandsversorgung, also zur Versorgung von Hörern in anderen Ländern eingesetzt werden.

Internationale Kurzwellenstationen benutzen meist Richstrahlantennen, um ihre Programme in bestimmte Zielgebiete abzustrahlen auf Frequenzen, die den bestmöglichen Empfang garantieren. Die meisten internationalen Rundfunksendungen sind so ausgelegt, dass sie ihr Zielgebiet in den Abendstunden erreichen, allerdings senden auch viele Stationen in den Morgenstunden sowie während des ganzen Tages. Die Empfangsgebiete bezeichnen gleichzeitig die einzelnen Dienste, z.B. Europadienst (bestimmt für Europa), Fernostdienst (bestimmt für Fernost), Nordamerikadienst (bestimmt für Nordamerika) usw. Die Sprachen entsprechen jeweils denen, die im Zielgebiet gesprochen werden oder der Sprache des Sendelands für solche Hörer, die diese Sprache verstehen.

Der beste Empfang ist normalerweise im Zielgebiet der Sendung. Da sich jedoch viele Zielgebiete überschneiden, bringt der Empfang von Sendungen, die für benachbarte Zielgebiete bestimmt sind, oftmals zufriedenstellende Resultate. Das Gleiche gilt für Sendungen, die in weit entfernte Gebiete der Erde abgestrahlt werden. Die Kurzwellenausbreitungsbedingungen ändern sich laufend im Verlaufe des Tages bzw, der Nacht, durch jahreszeitlich bedingte Einflüsse und mit der sich ändernden Sonnenaktivität. Infolgedessen kann guter Empfang nur durch öfteren Frequenzwechsel erreicht werden. (Siehe Artikel "Radio Broadcast Reception Conditions 1977" und "Solar Activity in 1977").

Inlands-Kurzwellenstationen benutzen meist eine geringere Senderleistung als internationale Stationen, darüber hinaus verwenden sie im allgemeinen keine Richstrahl- sondern Rundstrahlantennen, um ihre lokale oder nationale Zuhörerschaft zu erreichen. Diese Stationen nehmen nicht so oft jahreszeitlich bedingte Frequenzänderungen vor, sondern arbeiten Tag und Nacht im gleichen Kanal. Sie versorgen Gebiete eines Landes, die nicht oder nur unzureichend mit Mittelwelle oder Langwelle versorgt werden können.

Die geographischen Koordinaten der Senderstandorte werden in Graden und Minuten angegeben.

Lang- und Mittelwellen-Stationen dienen in der Hauptsache der nationalen Versorgung. Es gibt leistungsstarke Sender, die in der Lage sind, ein ganzes Land zufriedenstellend zu versorgen und leistungsschwache Sender, die der regionalen Versorgung in unmittelbarer Nähe des Senders dienen.

FM (frequenzmodulierte) Stationen arbeiten auf Ultrakurzwelle (UKW). Bereiche: 66-72MHz in Osteuropa. 88-108MHz in den Amerikas und 87-100MHz in anderen Gebieten. Diese Betriebsart gewährleistet störungsfreien Empfang über kurze Entfernungen. Die meisten FM oder UKW-Stationen übertragen im direkten Relaisbetrieb Programme der Mittel- bzw. Langwellenstationen, ausser in Nordamerika, wo die meisten FM-Stationen eigene Programme ausstrahlen.

Frequenzen und Wellenlängen: Frequenzen werden in Kilohertz (kHz) und Megahertz (MHz) gemessen. Ein Hertz (genannt nach dem deutschen Physiker Heinrich Hertz) entspricht einer Schwingung pro Sekunde usw., also ein Kilohertz (kHz) entspricht 1000 Schwingungen pro Sekunde. Die Wellenlänge wird in Metern angegeben.

Die Formel, die den Zusammenhang zwischen Frequenz und Wellenlänge wiedergit, heisst:

(continued on page 26)

Satellit 2100:

World-receiver with 21 wave bands!

GRUNDIG

The SATELLIT 2100 has 21 tuning ranges: FM, AM, expanded LW band for special maritime radio services and 18 shortwave bands, and offers a reception exceeding most of the high-performance nonprofessional receivers.

Superior SW unit
Genuine dual conversion superheterodyne with highest image frequency rejection · extraordinary linearity and highest calibration accuracy on bands SW 3...10 · trimmer for outdoor antenna and car aerial on SW bands 3...10 · ceramic filter on AM for enormous selectivity · bandwidth conversion, (appr. 2.4 and 5.3 kHz) coupled with switchable interference filter · continuous range 187–10 m subdivided sections SW 1 (187–85 m) and SW 2 (90–58 m) · rotating selector with 8 prespread, overlapping sections, for coverage of wave lengths from 60 to 10 m · the public radio bands in each SW section can in addition be spread over the whole length of the scale by tandem triple capacitor.

Single sideband reception
Connection facilities for an SSB adapter are obviously mandatory for a unit with such an intricate technical layout. The SSB adapter is available as an optional accessory.

Listening pleasure on FM
The SATELLIT 2100 has the following remarkable features: separate FM with separate tuning · an unusual output power of 7 watts at mains operation · 2 SUPERPHON loudspeakers · individual bass and treble controls.

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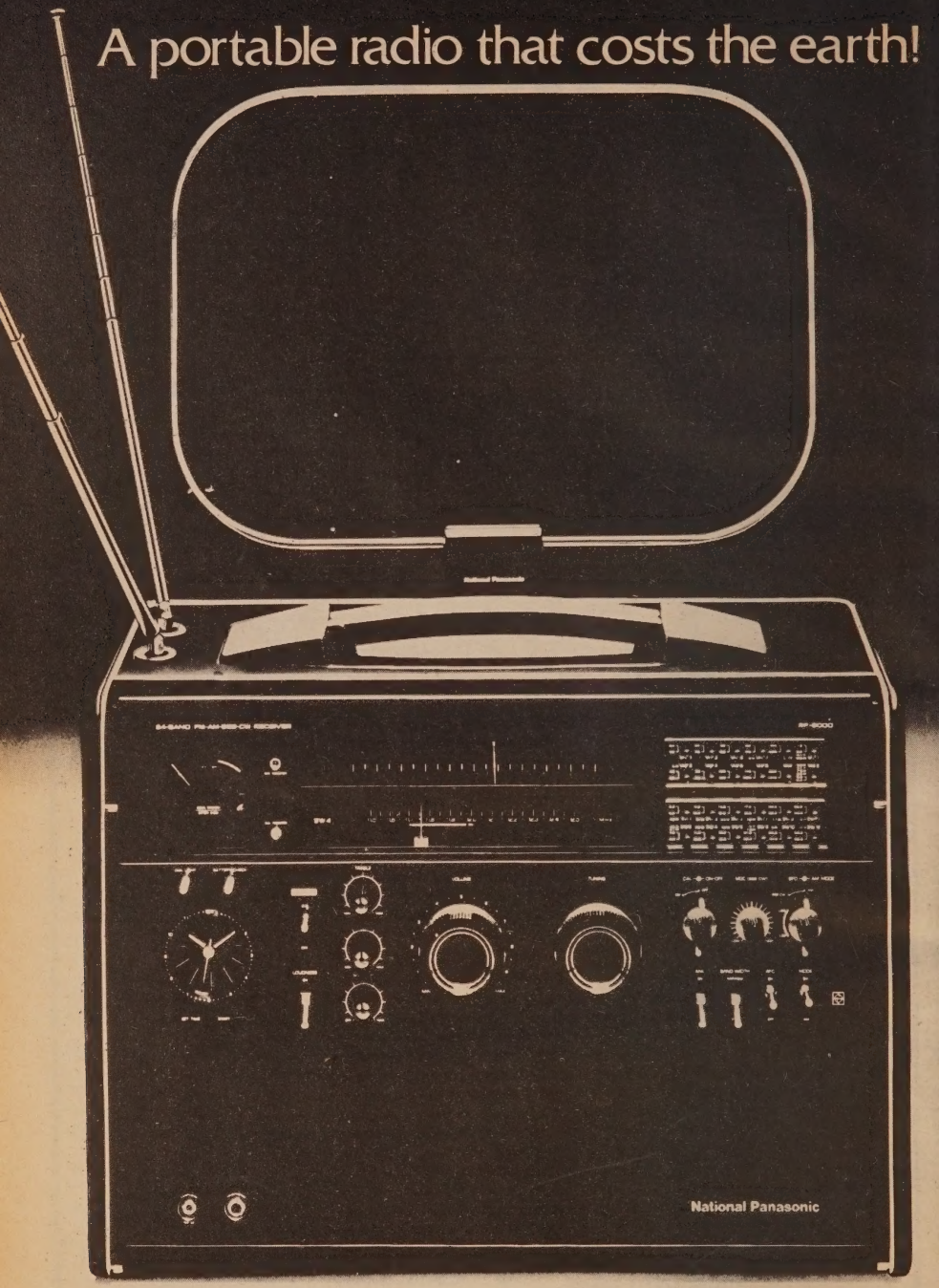

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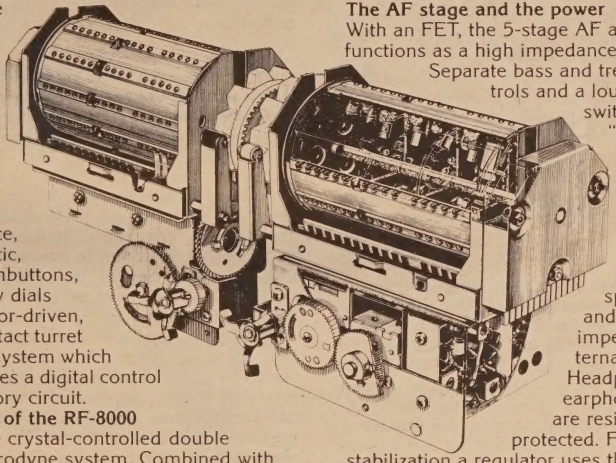
The RF-8000 is innovative radio engineering at its best. For overall versatility, performance and engineering quality, it can have few rivals anywhere. Every component, circuit and part has been designed and tested to provide the best possible reception under any condition. The very wide frequency range covers every reception mode. And the 24 bands include 12 SW, 2 Marine, LW & MW. The 8 VHF bands, besides carrying FM broadcasting, are used by information and communication stations such as emergency services, aircraft control and amateur radio enthusiasts. With such a comprehensive bandwidth at your fingertips, you can literally listen-in to the whole world! The RF-8000 is not only beautifully styled. It is also highly functional. Band selection, for instance, is automatic, using pushbuttons, twin rotary dials and a motor-driven, direct-contact turret selection system which incorporates a digital control and memory circuit.



The heart of the RF-8000

This is the crystal-controlled double superheterodyne system. Combined with tuned RF stages, a 6-stage IF circuit, ladder-type ceramic filters, and antenna matching circuitry, this produces excellent SW sensitivity and selectivity. And interlocking linear frequency variable condensers provide the "perfect tracking" SW linear tuning scale. The VHF rotary tuner circuit is a multiple tuned antenna, RF-amplified, single stage separately excited double superheterodyne system (at narrow position), with multiple tuning ensuring maximum selectivity at the antenna stage.

The IF stage

Using the same components as in standard communications equipment, with circuits for FM, AM, SSB and CW detection, wide/narrow bandwidth switching, tuning meter indication, automatic noise limiter, AFC on FM etc. The IF stage has 6 stages for the FM line, with 2 limiter stages, 4 stages for the AM line, and 6 stages, including VIF, for SW. High selectivity comes from the use of ladder-type ceramic filters, especially for narrow-band VHF reception. The IF stage uses a total of 27 transistors.

SW dial calibration

This increases SW read-out precision by the use of 500kHz crystal markers applied separately to the AM and SSB stages. The manual calibrator lets you precisely read frequencies to 5kHz. It's also very useful for pre-tuning before a station begins broadcasting.

The AF stage and the power

With an FET, the 5-stage AF amplifier functions as a high impedance amplifier. Separate bass and treble controls and a loudness switch let you "tailor" the sound. Jacks and terminals include Aux in, Rec out, External speakers, and multi-impedance external antennas. Headphones and earphone jacks are resistor-protected. For power stabilization a regulator uses three transistors and a Zener diode, keeping the voltage steady under all conditions.

The critical antenna stage

There are three built-in ferrite core antennas, for LW, MW and MB. For increased directionality and sensitivity, especially for SW, there's a 360° rotating frame antenna. And for VHF there's a balanced dipole "whip-rod" antenna.

Want to know more?

For further information on the fabulous RF-8000—there isn't another like it!—see your local National Panasonic dealer, or write to us directly at:
Matsushita Electric Industrial Co., Ltd.
Radio Dept.
Kadoma, Osaka571, Japan.

National Panasonic

$$\text{Wellenlänge} = \frac{300\,000}{\text{Frequenz (kHz)}}$$

$$\text{Frequenz (kHz)} = \frac{300\,000}{\text{Wellenlänge (m)}}$$

Die meisten Rundfunkanstalten geben Frequenzen in Kilohertz oder Megahertz an. Ein Kilohertz sind 1000 Hertz, ein Megahertz 1000 Kilohertz.

Wegen der Ausbreitungsbedingungen, Interferenz durch andere Stationen, Jamming, Senderausfall, Zuweisung einer anderen Frequenz seitens des eigenen Landes oder durch internationale Übereinkunft oder sonstigen Gründen kann es vorkommen, dass Stationen andere als in diesem Handbuch aufgeführte Frequenzen benutzen.

Strahlungsrichtung

Der Azimut der Hauptstrahlungsrichtung der Sendeantenne wird in Graden im Uhrzeigersinn rechtsweisend Nord angegeben, wenn die jeweiligen Stationen entsprechende Angaben geliefert haben.

Programmzeiten in den Aufstellungen basieren auf einem 24-Stunden-Tag. Mitternacht = 00.00 Uhr, 3 Uhr vormittags = 03.00 Uhr, 9 Uhr vormittags = 09.00 Uhr und Mittag = 12.00 Uhr. Anstatt nun einen nochmaligen 12-Stunden-Zyklus zu beginnen, wird weitergezählt bis Mitternacht, so dass 3 Uhr nachmittags = 15.00 Uhr, 10 Uhr abends = 22.00 Uhr usw. bis 23.59 (11.59 Uhr abends) und dann beginnt ein neuer 24-Stunden-Zyklus. Dadurch werden Missverständnisse zwischen a.m. (vormittags) und p.m. (nachmittags) Zeiten von vornherein ausgeschlossen.

Zeitumwandlung: Alle Programme werden in GMT (Greenwich Zeit) angegeben. Um von GMT in Ortszeit umzuwandeln, bedienen Sie sich bitte der Weltzeittabelle auf Seite 58 aus der hervorgeht, um wieviele Stunden plus oder minus GMT ihre Ortszeit abweicht. Die entsprechende Anzahl Stunden oder Minuten müssen von GMT substrahiert oder dazu addiert werden, um Ortszeit zu erhalten. Um die Umwandlung zu erleichtern, schlagen wir vor, in die linke Spalte eines Blattes Papier alle GMT-Zeiten von 00.00 bis 24.00 Uhr einzutragen und die entsprechende Lokalzeit in die rechte Spalte. Bei Sommerzeit müsste nochmals eine Stunde zur Ortszeit hinzuaddiert werden, wenn in ihrem Lande Sommerzeit üblich ist.

Programme In vielen Ländern sind die Programme aufgeteilt in Inlands- und Auslandsdienste. Die Programme der Inlands-dienste werden nach Sprachen und Programmdiensten oder Versorgungsnetz aufgeführt. Die Auslandsdienste werden generell nach Zielgebiet und Sprachen für jedes Zielgebiet aufgeführt. Die Zeiten und Frequenzen der Programme in den verschiedenen Sprachen sind zusammen aufgeführt, um einen schnellen Überblick zu erhalten. Gesetzt den Fall, Sie möchten eine Sendung in einer bestimmten Sprache aus einem bestimmten Land empfangen, dann brauchen Sie nur die unter dem betreffenden Land aufgeführten Zeiten und Frequenzen für diese spezielle Sprache nachzuschlagen. Die meisten Sendungen werden auf mehr als einer Frequenz ausgestrahlt. Bitte probieren Sie alle Frequenzen durch, um die für Ihr Zielgebeit best Empfangsfrequenz zu ermitteln.

Identifizierung von Stationen: Die meisten Stationen in Europa, dem Nahen Osten, Afrika und Asien identifizieren sich durch Ansage des Stationsnamens und des Standortes. Die meisten Stationen in Nordamerika und dem Pazifik (einschl. Australien und Neuseeland) identifizieren sich durch ein Rufzeichen bestehend aus 3 bis 5 Buchstaben oder einer Kombination von Buchstaben und Zahlen, wobei der erste oder die beiden ersten Buchstaben die Nationalität entsprechend der Liste der internationalen Landeskenner bezeichnen. Die meisten Stationen in Lateinamerika benutzen sowohl Rufzeichen (nicht immer angesagt) als auch Stationsnamen und Standort.

Darüber hinaus benutzen viele Stationen ein musikalisches Sendezeichen zu Programmbeginn und auch zwischen den einzelnen Programmteilen, um so dem Hörer das Auffinden der Station auf der Skala und die Identifizierung als die von ihm gewünschte Station zu erleichtern. Diese Sendezeichen sind ebenfalls in der Länderaufstellung enthalten.

Wie kann man eine Station anhand der Frequenz oder Wellenlänge identifizieren? Wenn Sie eine Ihnen unbekannte Station hören, versuchen Sie zunächst einen Hinweis auf die Identität zu erhalten, indem Sie Sprache und Art des Programms herauszufinden suchen. Dann notieren Sie sich die ungefähre Frequenz oder Wellenlänge auf Ihrer Skala und sehen Sie am Schluss des Handbuches in der Tabelle "Shortwave Stations of the World" nach, welche Stationen in diesem Bereich arbeiten. Danach sehen Sie in der Programmaufstellung nach, welche der dort aufgeführten Stationen zu dieser Zeit senden und welche aufgrund der angegebenen Senderleistung und der Entfernung zum Empfangsgebiet am ehesten bei Ihnen empfangen werden könnten. Um völlige Sicherheit zu erlangen, sollten Sie dann die Stationsansage bzw. das Sendezeichen abwarten. (Beides wird von den meisten Stationen in mehr oder weniger regelmässigen Zeitabständen wiederholt).

Frequenzänderungen: Die hier aufgeführten Frequenzen sind die, die zur Zeit der Veröffentlichung des Handbuches gültig waren. Aus verschiedenen Gründen, Interferenz oder Änderungen der Ausbreitungsbedingungen, werden Frequenzänderungen nötig. Sehr oft wird aber nur eine der für ein bestimmtes Programm vorgesehenen Frequenzen geändert. Die geänderte Frequenz kann leicht herausgefunden werden, indem man eine der nicht geänderten Frequenzen abhört und die Stations ansage mit den Frequenzangaben abwartet.

Interferenz: Wegen der gegenwärtigen Überfüllung der Mittel und Kurzwellenrundfunkbänder kann es häufig zu Interferenzen durch Stationen im Gleich-oder Nachbarkanal kommen. Zusätzlich zu normalen Interferenzen, kommt es häufig zu Störungen durch "Jamming" (absichtliche Störungen). Die "Jammer" übertragen eine Vielfalt von Geräuschen und Tönen, um zu verhindern, dass

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bestimmte Sendungen in ihrem Land empfangen werden können. Wenn Interferenzen auftreten, ist es zweckmässig, auf eine der anderen Frequenzen (falls vorhanden) auszuweichen oder die Sendung zu einer anderen Sendezeit einzuschalten.

Empfang aus "schlecht zu empfangenden" Ländern: Wenn Sie beabsichtigen, eine Station oder ein Programm aus einem bestimmten Land zu empfangen, schlagen Sie zunächst die Tabelle des betreffenden Landes auf und stellen Sie fest, ob dieses Land in ihr Zielgebiet oder ein benachbartes Land sendet. Falls nicht, stellen Sie anhand der Aufstellung über Frequenzen und Sendezeiten sowie Senderleistung fest, wann und wo eventuell ein Empfang möglich wäre. Stellen Sie gleichzeitig fest, auf welchen Frequenzen und zu welchen Zeiten andere Stationen aus diesem Teil der Erde in ihrem Land hörbar sind. Es ist oftmals möglich, Sendungen aus sehr weit entfernt liegenden Ländern zu empfangen, auch wenn diese Sendungen nicht in ihr Wohngebiet gerichtet sind, und zwar durch ständiges Hören, wenn die Ausbreitungsbedingungen günstig und die Kanäle relativ frei sind. Wenn Sie mehr über die Ausbreitungsbedingungen erfahren möchten, bitte schlagen Sie nach auf Seite 37, "Table of the Most Suitable Broadcasting Bands 1977".

Bestätigung durch QSL-Karte: Wie in den Programmtabellen der einzelnen Länder vermerkt, sind die meisten Stationen daran interessiert, Berichte über ihre Sendungen zu erhalten. Diese Stationen bestätigen die Berichte entweder mit QSL-Karte oder Brief. Die meisten **internationalen** Rundfunkstationen verlangen kein Rückporto und werden in mehr oder weniger kurzen Zeitabständen per QSL-Karte oder Brief antworten. Die **inländischen** Rundfunkstationen sind logischerweise an Berichten aus dem Ausland weniger interessiert, man sollte deshalb Berichten an diese Stationen immer Rückporto beifügen. Rückporto sollte in Form von internationalen Antwortscheinen (IRC's) beigefügt werden, die in jedem Postamt zu erhalten sind. Berichte sollten immer an die in der Länderaufstellung genannte Adresse geschickt werden. In den meisten Fällen sind in englischer Sprache abgefasste Berichte willkommen, lediglich süd- and zentralamerikanische Stationen ziehen Berichte in spanisher Sprache vor.

Empfangsberichte sind für Radioingenieure von grossem Nutzen, weil sie helfen, die günstigste Empfangsfrequenz für Sendungen in Ihr Zielgebiet auszuwählen. Die Berichte sollten im SINPO-Code abgefasst sein.

WAVELENGTH

Wavelength is the international Magazine for the radio enthusiast. It includes programme news and information on shortwave stations; profiles on British and international stations; latest developments in the radio broadcasting world; Technical suggestions and advice; and interviews with the radio people who matter.

Wavelength is published every month and available only from Music Radio Promotions **77, New Bond Street, London, W.1. Great Britain. Sample copy 50p ($1.00); yearly subscription. UK £4.50, Overseas ($10.00)**

S=Lautstärke	**I=Interferenz**	**N=atmosph. Störung**
5 sehr gut	5 keine	5 keine
4 gut	4 schwach	4 schwach
3 ziemlich gut	3 mittel	3 mittel
2 schwach	2 stark	2 stark
1 kaum hörbar	1 sehr stark	1 sehr stark

p=Schwund	**o=Gesamtbewertung**
5 kein	5 sehr gut
4 schwach	4 gut
3 mittel	3 ziemlich gut
2 stark	2 schlecht
1 sehr stark	1 unnbrauchbar

Elektrische Stromstärke: Wo bekannt wurde bei den Ländern ein Vermerk bezüglich Art des Stromes und Netzspannung gemacht. In Klammern finden Sie einen Hinweis auf eventuelle Spannungsschwankungen, wo stabil genug zum Anschluss einer elektrischen Uhr (yes), wo nicht (no).

Im Anschluss an die Informationen über die Radiostationen folgt der Teil des Handbuches, der sich mit **Fernsehstationen** beschäftigt. Die Informationen enthalten Angaben über Namen und Adressen der Stationen, Standort, das angewandte System, Leistung, Kanalangaben sowie Hinweise zum Programm.

Auf der ersten Seite des Fernsehteils des Handbuches, finden Sie eine Tabelle mit den verschiedenen gebräuchlichen Fernsehsystemen der Welt. Ausserdem geben wir eine kurze Erklärung der Fachwörter und Zeichen. – Der in der Ansage angegebene **Standort** ist meist der Standort der Studios, da die meisten Fernsehsender auf dem höchsten Punkt des betreffenden Gebietes installiert werden, um eine möglichst weitreichende Versorgung zu gewährleisten – Zwei **Modulationsarten** werden zur Übertragung des Tonfrequenzbereiches benutzt, entweder Frequenzmodulation (FM) oder Amplitudenmodulation (AM). Videoübertragungen sind normalerweise immer amplitudenmoduliert.

Polarisationsignale sind entweder horizontal (H) oder vertikal (V) polarisiert. Polarisation wird verwendet, um Interferenz durch andere Stationen zu verhindern oder aufgrund von Regierungsvorschriften des jeweiligen Landes. – Die **Bandbreite** wird in MHz angegeben und stellt die Grenze sowohl für Video-als auch für Tonübertragungen dar. – **Die Anzahl der übertragenen Zeilen** drückt aus, wieviele Zeilen notwendig sind, un ein Halbbild oder ein Vollbild zu erhalten, die Halbbilder wiederum bestimmen, wie oft das Bildfeld in der Sekunde vollkommen abgetastet wird. – Video und Audio-Leistung werden in Kilowatt (kW) bzw. Watt (W) angegeben. In den meisten Fällen bezeichnen die angegebenen Zahlen die äquivalente Strahlungsleistung entsprechend dem Antennensystem der jeweiligen Station.

Bild- und Tonfrequenz werden in MHz angegeben. Der Zusammenhang zwischen den angegebenen Zahlen und den Grenzen des Video-Bandes ist nach Ländern verschieden und kann nur anhand der in den betreffenden Ländern üblichen Normen festgestellt werden.

Da in vielen Ländern **Farbfernsehen** eingeführt wurde, geben wir, wo bekannt, das in den Ländern verwendete System an.

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SOLAR ACTIVITY IN 1977

by Prof. Dr.
M. Waldmeier
Zürich

Sunspot activity was at a low level in 1976. Up to the end of September the Sun was seen without spots on 82 days. Many people thought that this year marks the minimum. As the last minimum came in 1964, the new one eventually could be expected for 1975. But already in 1974 it became clear that cycle No. 20 will be a long one with a long declining branch. For "Solar Activity in 1975" the author wrote as follows: "It is improbable that the minimum will take place already in 1975. Furthermore, the activity in 1974 was still at an enhanced level so that it will take at least two years more to bring it down to the minimum. Finally, there is strong reason for supposing that the coming maximum will be one of low activity. The increase to that maximum will be long and slow. Therefore, the minimum cannot be expected before 1976 and it would not be surprising if it would come as late as 1977." Up to now the observations have followed closely these predictions.

In 1974 the mean sunspot number was 34.5, in 1975 15.5. From the behaviour of earlier cycles one knows that on the descending branch of solar activity a year with a sunspot number of 15 is followed by the minimum within one or two years. This again points to a minimum at the end of 1976 or at the beginning of 1977. During 1976 the activity was decreasing furthermore as is shown by the monthly mean values:

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.
8.5	4.6	23.0	19.5	12.7	12.4	2.1	16.9	13.4

The decrease is going on but slowly so that during the first nine months the mean sunspot number was only slightly smaller than in 1975. This is one more reason for the delay of the minimum.

Around sunspot minimum the activity of the old cycle (No. 20) and that of the new one are overlapping. The new cycle (No. 21) has made its first appearance by a spot on November 15, 1974. In 1975 out of the 110 sunspot groups observed in that year 6 were belonging to the new cycle. In the first half of 1976 42 sunspot groups have been observed, 36 of them were of the old cycle, only 6 of the new one. This proves that the minimum is certainly not reached before the second half of 1976. As by now the number of spots belonging to the old cycle is diminishing and that of the new cycle slowly increases, time will come when the contributions of both cycles will be equal. In October the activity of the new cycle has suddenly increased. In this month the spots belonging to the new cycle were for the first time more numerous and larger than the old-cycle spots. It is to be expected that in some of the coming months the old cycle will again be more active than the new one. By now it seems to be more probable that the minimum will be reached before than after the end of 1976. In the first two years of cycle No. 20, 85 groups had been observed whereas in the same interval of cycle No. 21 there were only 33. At the time when the new cycle – that had made its start but slowly – became more active in October, the old cycle had not yet vanished. The strong overlapping of the two cycles means that the present minimum will not be a deep one with a smallest smoothed sunspot number of about 12.

The heights of the maxima seem to undergo a variation with a period of about 90 years. As the strong cycles Nos. 17, 18 and 19 were followed by a cycle of intermediate activity (No. 20), the coming cycle will very probably be a weak one. The highest smoothed sunspot number may be around 60, compared to 110 in cycle 20 and 201 in cycle 19. For weak cycles the rising time from minimum to maximum is about equal to or even longer than the interval from maximum to minimum. With a rising time of six years and the minimum at the end of 1976 the coming maximum is to be expected to occur late in 1982.

Throughout 1977 the activity of the Sun will still be low, not much stronger than in 1976. The sunspot numbers will be around 12 at the beginning of the year and rise slightly up to about 20 till the end.

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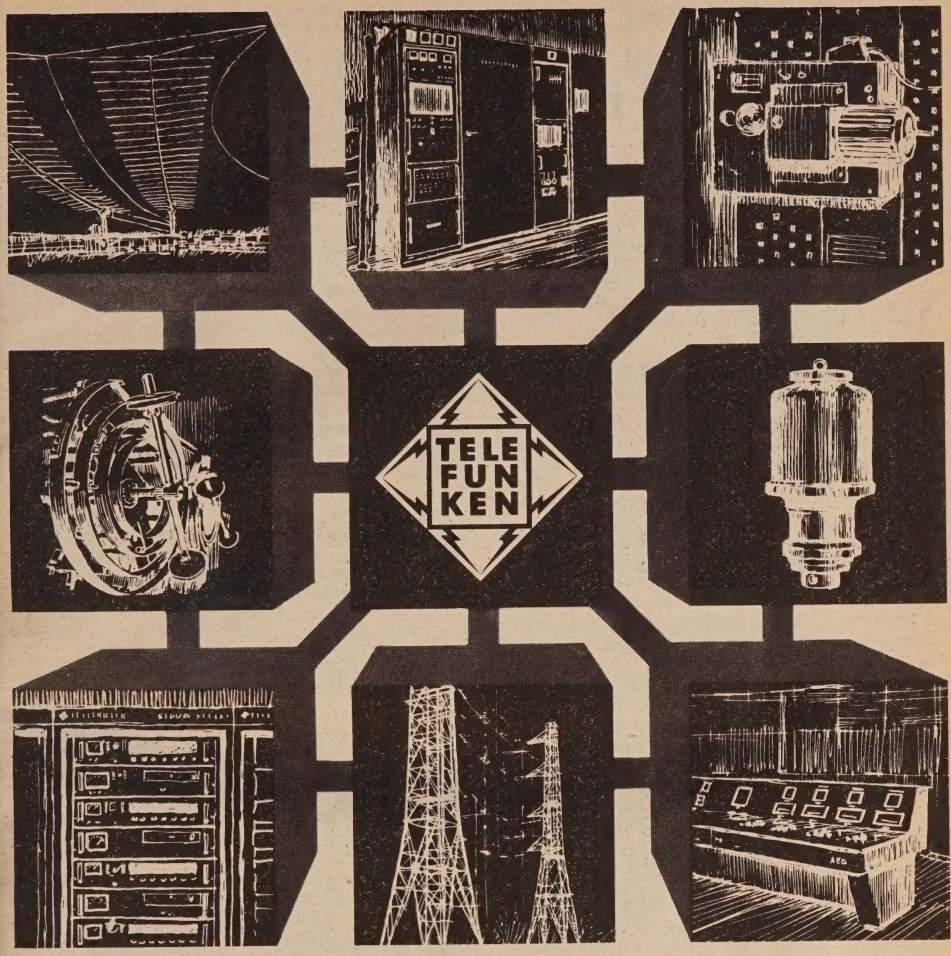

TELEFUNKEN TRANSMITTERS ALL OVER THE WORLD

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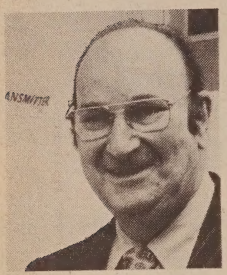
HIGH FREQUENCY BROADCAST RECEPTION CONDITIONS EXPECTED DURING 1977



by
George Jacobs,
Chief Frequency Division
Voice of America
US Information Agency
Washington, DC 20547

Born in 1924, George Jacobs is now entering his 35th professional year in broadcasting and international telecommunications. He has been with the Voice of America since 1949, where he has played a major role in the technical development of VOA's worldwide international broadcasting system.

Mr. Jacobs holds an MSEE degree and is a Fellow of the Institute of Electrical and Electronic Engineers (USA). He has represented the United States at more than a dozen major international telecommunication conferences, and is author of more than 500 published articles in the field of radio propagation, communication satellites, and telecommunications.

During 1976, Mr Jacobs was awarded the US Information Agency's Superior Honor Medal (see page 51).

It will probably take a bit more skill and patience to tune in and listen to broadcasts on the high frequency or shortwave bands during 1977.

While it may be difficult to imagine, it's all due to the lack of "spots" on the face of the sun, nearly 93 million miles away.

For reasons not yet fully understood by scientists, sunspots, as they are called, are believed to be caused by violent, gaseous eruptions which take place below the sun's surface. Radiation associated with these spots produce an electrified region in the earth's atmosphere called the **ionosphere.** It is the ionosphere that reflects shortwave signals over great distances.

To further add to the mystery of sunspots, they appear and disappear in a cycle of about eleven years. When there are a great number of spots, as was the case a few years ago, the ionosphere is strong and h.f. reception is at its best. When there are few spots, the ionosphere is relatively weak and shortwave conditions are at their poorest.

The present sunspot cycle which began during October 1964, should have ended by 1975, but it has turned out to be somewhat longer than an average cycle. It reached its peak during November 1968, and by the end of 1976 had declined to a count of approximately 8. According to most experts, the present cycle is still on its way down. This means that 1977 will in all likelihood experience the lowest level of sunspot activity since 1964, and the beginning of a new cycle.

Professor Dr. M. Waldmeier of the Swiss Federal Solar Observatory discusses solar activity for 1977 in greater detail in an article appearing elsewhere in this edition of the **World Radio TV Handbook.**

The sunspot count is an indication of the general intensity of ionization in the earth's atmosphere. In turn, the intensity of ionization determines what frequency bands will be received with strong signal levels. In general, fewer sunspots mean a less intense ionosphere, with poorer reception on the higher frequency bands (26, 21, 17 and 15MHz) and somewhat improved reception on the lower frequency bands (2-7MHz, and 9 and 11MHz).

While reception conditions are expected to improve on the lower frequency bands during 1977, most of the world's high frequency broadcasting effort will be compressed into the bands between 6 and 15MHz, considerably raising the level of interference. That's why it may require even greater skill and patience tuning in to your favourite stations during 1977 than it did during the past few years. A general summary of reception conditions expected in each h.f. band is given later in this article.

For newcomers to this column, it should be pointed out by agreement through the International Telecommunication Union, broadcasting stations use the following specific bands in the radio spectrum:

Low Frequency (Longwave): 150-285kHz or 1053-2000 meters. Used only in Europe, North Africa, and throughout the Soviet Union.

Medium Frequency (Mediumwave): 525-1605kHz or 187-571 meters. Used throughout the world.

High Frequency (Shortwave):

Kilohertz	Megahertz Band	Meter Band
2300-2495	2	120*
3200-2400	3	90*
3900-4000	4	75**
4750-5060	5	60*
5950-6200	6	49
7100-7300	7	41#
9500-9775	9	31
11700-11975	11	25
15100-15450	15	19
17700-17900	17	16
21450-21750	21	13
25600-26100	26	11

* Tropical Bands, used only in tropical areas.

\# Not used for broadcasting in the Western Hemisphere.

** Not used for broadcasting in Western Hemisphere, and only 3950-4000kHz in Europe and Africa.

Very High Frequency (Ultra Shortwave):
65-73MHz – Used in the Soviet Union and several East European countries.
88-100MHz – Used throughout the world.
100-108MHz – Used mainly in the Western Hemisphere.

While the majority of the world's high frequency broadcasting stations operate within the h.f. bands, some operate outside. Most out-of-band operations, however, take place on frequencies adjacent to the agreed bands.

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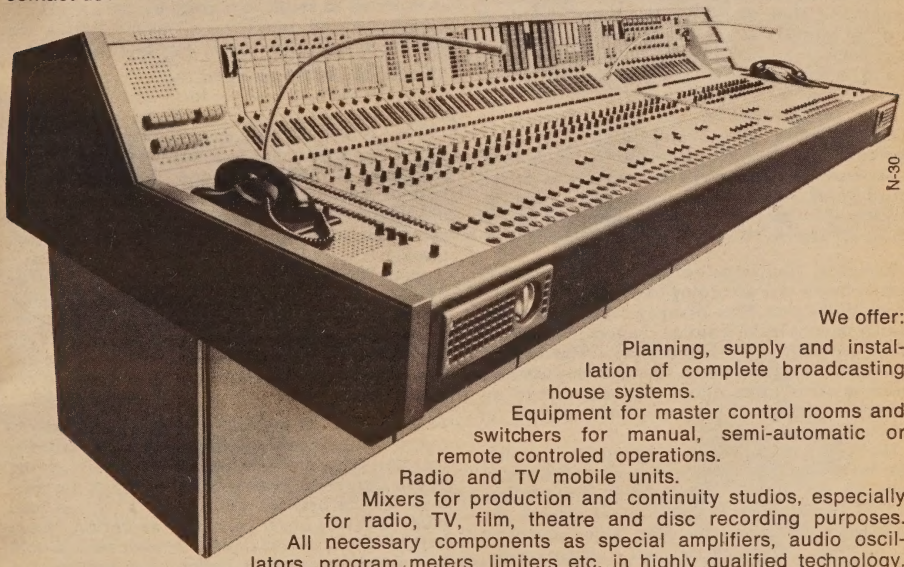

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Broadcasting stations in the Low and Medium Frequency Bands are normally heard over short to moderate distances, ranging between several dozen to a few hundred miles, depending on their power and intervening terrain. For this reason, stations broadcasting in these bands are used primarily for **domestic** coverage although the more powerful ones can be heard in nearby countries as well, especially during the hours of darkness when signal range often increases.

The Tropical Bands are used primarily for **domestic** broadcasting in tropical areas where high levels of static severely limit transmission in the Low and Medium Frequency Bands. Stations broadcasting in the Tropical Bands can generally be heard over short distances during the day and moderate distances at night. The Tropical Bands are used mainly in Latin America, Africa, and South and Southeast Asia.

VHF or Ultra Shortwave broadcast stations generally provide a high fidelity, interference free frequency modulated (FM) signal. These transmissions, however, have a very limited range, generally not more than several dozen miles, and are used exclusively for domestic broadcasting.

Transmissions in the Low, Medium, Tropical, and VHF Bands are limited by nature to distances which preclude their use for international broadcasting except in certain special cases. Only broadcasts in the High Frequency Bands are capable of crossing frontiers at any time of the day or night, spanning oceans and bridging continents. For this reason, a great amount of high frequency broadcasting is devoted to international broadcasts – that is, one country talking directly to listeners in another country, often thousands of miles away. During 1977, just about every country in the world is expected to be engaged in some form of h.f. broadcasting, domestic or international, or both. A world total of more than 1400 transmitters will fill the air for well over 20,000 frequency hours daily.

Reception conditions on the various High Frequency Bands vary according to the time of day and season of the year. Most of the international broadcasting stations make seasonal changes in frequency usage, generally on the first Sunday in March, May, September, and November. Changes may often be made at other times during the year due to interference, change of program times, addition of new transmitters, etc.

High Frequency broadcast reception is possible only because of the existence of an electrified region high in the earth's atmosphere. This region, electrified by solar radiation, is called the **ionosphere.** It is the ionosphere, acting somewhat like a mirror, that reflects high frequency radio signals over great distances.

The ionosphere is believed to be caused, at least in part, by ultraviolet radiation given off by the sun. The amount of radiation illuminating the ionosphere varies hourly, seasonally, and geographically depending upon the relationship between the sun and the earth. Reception is usually better on the **higher** frequency bands when the sun is more directly overhead or closer to the earth; for example, during the daylight hours, during the winter season, and in tropical areas.

Reception in the lower frequency bands is usually **better** when the sun is lower in the sky, or further from the earth; for example, during the hours of darkness, and in temperate and northern geographical areas.

The following is a general summary of reception conditions expected in each high frequency band during 1977:

26MHz band (11 meters) – Very little long distance reception is possible in this band during periods of very low solar activity. Very few, if any stations will use this band during 1977.

21MHz band (13 meters) – Many stations will continue to use this band during 1977, despite considerably poorer reception conditions. Conditions favour reception from southern and tropical areas during the hours of daylight. Reception from other areas of the world may be possible from time-to-time during the daylight hours of the early spring, late fall and winter months.

17MHz band (16 meters) – Long distance openings over many thousands of miles should be possible from all areas of the world during the daylight hours of the spring, fall and winter months. Stations from southern and tropical areas may be heard in this band on a regular basis throughout the summer months as well. Distant stations will often have exceptionally strong signal levels, especially during the afternoon hours.

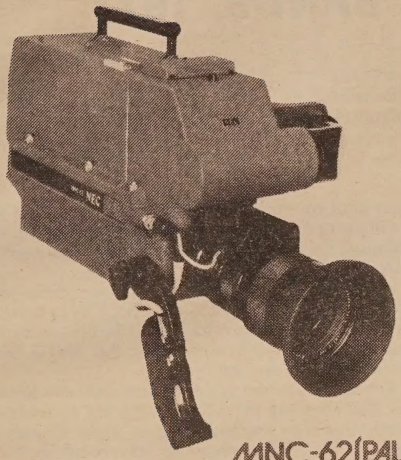
A large number of broadcasters previously using the 21MHz band will use 17MHz during 1977. This is expected to result in a considerable increase in congestion and interference, mainly during the daytime hours of the winter months.

15MHz band (19 meters) – During 1977 this should be the best band for long-distance reception during the daylight hours. Every major broadcaster will use this band, since daytime propagation conditions are expected to continue to be good for the reception of both long and medium distance stations, from several hundred to several thousand miles away. The band should be full of signals, often exceptionally strong, from shortly after sunrise, through the daylight hours and into the early evening. Exceptionally long distance reception is more likely to occur for a short period after sunrise and again during the later afternoon and early evening hours. With favourable propagation conditions, and with so many more stations planning to use this band during 1977 congestion and interference is expected to be greater than at any previous time.

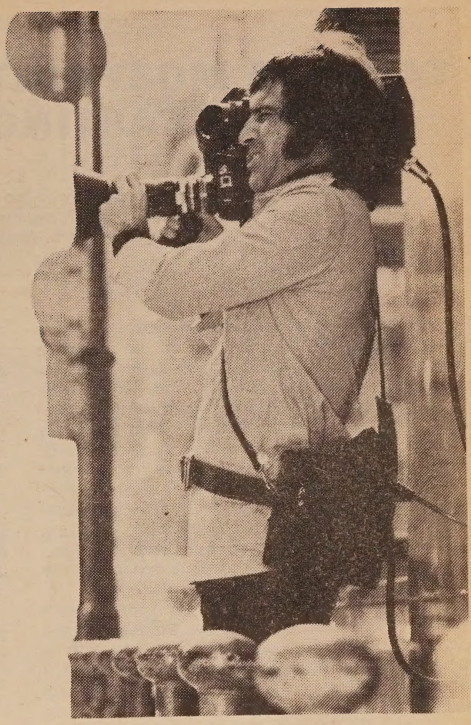
11MHz band (25 meters) – This should be an excellent band for medium distance reception during the daylight hours, when exceptionally strong signals should be possible at any season of the year, from stations between approximately 1000 to 2000 miles away. Longer distance reception, from stations up to several thousand miles away should be possible for a short period after sunrise, and again during the late afternoon and early evening hours. Relatively heavy congestion is expected in this band, especially during the late afternoon and early evening hours, when it will be used by all major broadcasting organizations. Except during the summer months, reception on this band is expected to fall off rapidly after sundown.

9MHz band (31 meters) – Reception during 1977 should be excellent during the daytime over short and medium distances on the order of 500 to 1500 miles, throughout the year. Fairly good long distance reception from stations as much as several

(continued on page 36)



MNC-62(PAL)



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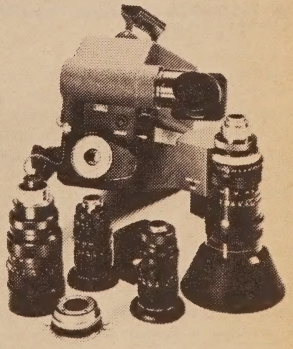

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TABLE OF MOST SUITABLE MEGAHERTZ BROADCASTING BANDS, 1977

by George Jacobs, MSEE
Chief, Frequency Division,
Voice of America, Washington, DC 20547

The "Table of The Most Suitable Megahertz Broadcasting Bands, 1977", appearing on the following page has been compiled from the latest available estimates of sunspot activity and world-wide ionospheric data. The "Table" shows the Megahertz band that should be optimum for high frequency reception into a given "listener's area", for a specific month and time. The "Table" takes into account "Transmitting Station Locations" in the major geographical areas of the world. On some occasions it may be possible to receive broadcasts on the next higher, or next lower band, but reception is expected to be the best on the Megahertz band shown in the "Table".

During 1977, a very low level of sunspot activity is expected. Compared to 1976, this will mean that a greater number of broadcasting stations will be operating in the lower Megahertz bands (15, 11, 9, 7 and 6MHz), where reception conditions will remain fairly good. Fewer stations will be operating in the 17, 21 and 26 Megahertz bands because of the generally poorer reception conditions expected during 1977.

The "Table" is simple to use. Begin by locating your geographical area in the left hand column marked "listener's area". For the time period you are interested in (given in both GMT and approximate local time) run your finger horizontally to the right until you intersect the transmitter location you are interested in hearing, for the specific month. The optimum band for reception is given at this point of intersection.

For example, if you live in Europe (time zone GMT+1) and you want to receive a broadcasting station located in Australia at 1800 local time during March, the "Table" shows that the 9MHz band should produce the best results.

Another example. It's February and you live on the east coast of the USA. You want to listen to South American stations at 4 p.m. in the afternoon. The "Table" shows that the best band to try is 15MHz.

Since many readers are used to Meter bands instead of Megahertz bands, the following table can be used to convert from one to another.

Megahertz Band	Meter Band
25	11
21	13
17	16
15	19
11	25
9	31
7	41
6	49
4	75

High Frequency Reception Conditions
(continued from page 34)

thousand miles away should be possible for a short period after sunrise and again during the later afternoon and early evening hours. During the late spring, summer and early fall months, long distance reception of stations from many areas of the world also should be possible during most of the hours of darkness. During the late fall, winter and early spring months, reception is expected to deteriorate after sundown except for stations located in equatorial and southern regions. A high level of congestion and interference is expected on this band during 1977, especially during the afternoon hours.

7 and 6MHz bands (41 and 49 meters) – Excellent short range reception should be possible on these bands during the daylight hours; for distances up to approximately 1000 miles. These will be good bands for long distance reception during the hours of darkness. During the late fall, winter and early spring months, reception is expected to deteriorate in these bands after sunset. Since these are the lowest frequency bands allocated internationally, almost all broadcasters will make use of them for long distance transmissions during the hours of darkness. For this reason, there is expected to be extreme congestion and heavy interference in these bands during 1977.

5, 4, 3, and 2MHz bands (60, 75, 90, and 120 meters) – As the sunspot numbers decrease, those bands become more useful for regional shortwave broadcasting. In fact, conditions on these bands, especially during the hours of darkness are expected to be better during 1977 than they have been for the past eleven years. During the daylight hours, stations within a radius of a few hundred miles should be heard well. After sunset, especially during the late fall, winter and early spring months, good reception in these bands may be possible up to several thousand miles. High static levels will often mar reception during the summer.

For more specific reception information, please refer to the **Table of the Most Suitable Megahertz Broadcasting Bands for 1977.**

TRANSMITTING STATION LOCATION

Prepared by George Jacobs, Voice of America,
Frequency Division

LISTENER'S AREA	LOCAL TIME	APPROX. GMT TIME	Jan./Feb. & Nov./Dec.							Mar./Apr. & Sept./Oct.							May – August						
			EUR/NAF	N.AM(E)	N.AM(W)	C/S.AM	C/S.AF	ME/S.AS	E.AS	AUS/NZ	EUR/NAF	N.AM(E)	N.AM(W)	C/S.AM	C/S.AF	ME/S.AS	E.AS	AUS/NZ	EUR/NAF	N.AM(E)	N.AM(W)	C/S.AM	C/S.AF	ME/S.AS	E.AS	AUS/NZ
EUROPE	0000-0400	2300-0300	4	6	6	6	7	7	7	7	6	6	6	6	9	7	9	9	6	9	9	9	9	9	9	9
AND	0400-0800	0300-0700	4	6	6	6	9	7	9	9	4	6	6	6	9	9	9	11	7	9	9	9	9	9	11	11
NORTH	0800-1200	0700-1100	6	6	6	9	15	15	15	9	7	6	6	6	15	15	15	15	9	9	9	9	15	15	15	15
AFRICA	1200-1600	1100-1500	9	9	6	11	15	15	15	11	9	11	6	11	15	15	15	11	9	11	9	15	15	17	15	11
	1600-2000	1500-1900	7	15	9	15	11	9	7	9	9	15	11	15	15	11	9	9	9	15	11	15	15	11	11	9
	2000-2400	1900-2300	6	9	9	11	9	7	6	7	6	11	11	15	11	9	9	9	9	11	11	11	11	9	9	9
NORTH	10PM-2AM	0300-0700	4	6	6	6	6	6	9	11	6	6	6	6	6	6	6	9	9	6	9	9	7	9	9	11
AMERICA	2AM-6AM	0700-1100	4	6	6	6	6	6	7	6	6	6	6	6	6	6	6	6	9	6	6	9	7	9	9	9
(EAST)	6AM-10AM	1100-1500	11	6	9	11	11	11	9	9	11	6	9	11	11	11	6	9	11	9	9	11	15	15	11	9
	10AM-2PM	1500-1900	15	11	11	17	15	15	9	11	15	11	11	15	15	15	9	15	15	11	11	15	15	15	15	15
	2PM-6PM	1900-2300	9	9	15	15	11	11	15	11	11	11	15	15	15	11	11	15	15	15	15	15	15	15	15	15
	6PM-10PM	2300-0300	6*	6	9	6	9	6	11	11	6*	6	11	9	9	9	11	15	11	9	11	11	11	9	15	15
NORTH	12M-4AM	0800-1200	4	6	6	6	6	9	6	9	6	6	6	6	7	9	6	9	9	6	6	6	9	9	9	9
AMERICA	4AM-8AM	1200-1600	6	6	6	9	11	9	6	6	9	9	6	9	11	9	6	6	9	9	6	9	11	11	9	9
(WEST)	4AM-12N	1600-2000	11	11	6	15	15	11	9	9	11	11	9	15	15	15	9	6	11	11	9	15	15	15	11	9
	12N-4PM	2000-2400	11	11	11	11	11	11	9	11	17	9	15	15	17	15	11	15	15	11	15	15	15	11	11	15	15
	4PM-8PM	0000-0400	6	9	9	9	9	11	15	15	6	9	9	11	9	9	15	15	11	11	11	11	11	11	15	17
	8PM-12M	0400-0800	6*	6	6	6*	6	9	9	9	6*	6	6	6	9	11	9	9	9	9	9	9	9	11	15	11
CENTRAL	12M-4AM	0400-0800	6	6	6	6	7	6	9	11	6	6	9	6	6	9	9	11	9	9	9	6	6	11	11	11
AND	4AM-8AM	0800-1200	7	6	6	6	9	9	9	11	9	6	6	6	9	11	9	11	7	6	6	6	9	11	11	11
SOUTH	8AM-12N	1200-1600	15	15	9	9	15	15	9	11	15	15	9	9	15	15	9	11	15	15	9	9	15	15	11	9
AMERICA	12N-4PM	1600-2000	15	15	15	11	17	15	11	11	15	15	15	11	17	15	11	11	15	15	15	11	17	15	15	15
	4PM-8PM	2000-2400	9	11	15	9	11	9	11	15	11	11	15	9	15	11	11	15	11	11	15	9	11	11	15	15
	8PM-12M	0000-0400	6	6	9	6	9	6	15	15	7	6	11	6	9	9	15	15	9	9	11	6	9	11	15	15
CENTRAL	0000-0400	2200-0200	6	9	9	11	6	7	7	11	9	9	11	11	9	6	7	11	9	11	9	11	6	7	9	9
AND	0400-0800	0200-0600	7	6	6	9	7	9	7	11	7	6	9	9	6	6	6	11	7	6	6	6	6	6	6	15
SOUTH	0800-1200	0600-1000	11	6	9	9	11	15	11	15	11	6	9	11	11	15	15	15	11	9	9	11	11	15	15	15
AFRICA	1200-1600	1000-1400	15	9	9	11	11	17	15	11	15	11	9	17	15	17	17	15	15	11	9	15	11	15	17	11
	1600-2000	1400-1800	15	15	11	17	11	15	11	9	15	15	11	17	11	15	11	9	15	15	15	17	11	15	11	9
	2000-2400	1800-2200	9	11	15	15	9	9	7	9	9	15	15	17	9	9	9	9	9	15	15	15	9	9	11	9
MIDDLE	0000-0400	2100-0100	6	9	9	9	7	6	6	7	6	11	11	11	6	6	7	9	9	11	11	11	6	6	9	9
EAST	0400-0800	0100-0500	6	6	6	9	9	9	11	11	6	9	9	11	6	9	11	11	6	11	11	11	6	9	11	11
AND	0800-1200	0500-0900	9	6	6	6	15	9	15	15	9	6	9	9	15	11	15	15	11	6	9	11	15	11	15	15
SOUTH	1200-1600	0900-1300	15	6	6	11	17	15	11	9	15	6	9	11	15	11	11	9	17	11	9	11	15	11	15	11
ASIA	1600-2000	1300-1700	15	11	9	15	11	11	9	9	15	11	11	15	17	9	9	9	15	11	11	15	15	9	9	9
	2000-2400	1700-2100	7	11	11	15	9	7	7	6	11	15	11	15	11	7	6	9	11	15	11	15	9	7	11	6
EAST	0000-0400	1600-2000	7	9	9	11	7	7	6	7	9	11	9	11	9	7	7	7	9	11	11	11	9	9	6	7
ASIA	0400-0800	2000-2400	6	9	11	11	7	6	6	9	7	11	11	11	9	7	7	9	6	15	15	15	9	9	9	9
AND	0800-1200	0000-0400	7	11	15	15	9	15	11	15	7	11	15	15	6	11	11	15	9	15	15	15	7	11	11	17
FAR	1200-1600	0400-0800	11	9	9	11	9	15	11	17	11	6	11	11	9	15	15	17	11	11	11	11	11	15	9	11
EAST	1600-2000	0800-1200	11	6	6	9	15	11	11	11	15	6	9	9	17	11	11	11	11	9	9	11	17	11	11	11
	2000-2400	1200-1600	11	9	6	9	11	9	7	11	15	9	6	9	15	9	7	9	15	11	9	11	15	11	7	9
AUSTRALIA	0000-0400	1400-1800	11	11	9	11	11	7	7	6	11	11	6	11	11	9	7	6	11	11	9	11	11	9	7	7
AND	0400-0800	1800-2200	9	11	11	11	9	7	7	6	9	11	11	11	9	7	7	6	9	15	15	11	9	7	7	6
NEW	0800-1200	2200-0200	9	15	15	15	9	9	15	9	9	15	17	15	11	9	15	9	11	15	15	15	9	9	15	9
ZEALAND	1200-1600	0200-0600	9	11	11	11	11	11	15	11	9	9	11	15	11	15	17	11	9	11	15	11	11	11	17	11
	1600-2000	0600-1000	9	6	9	11	15	15	15	11	11	6	9	11	15	15	15	11	15	11	9	11	15	15	15	9
	2000-2400	1000-1400	15	9	9	9	15	15	11	7	15	9	6	11	15	11	11	9	15	9	9	9	15	11	9	9

Band selections have been made taking into account both propagation conditions and station operating schedules.

* 4MHz may be better.

Best times to listen for long distance HF broadcasts are during the late afternoon and early evening and for a few hours after sunrise at your receiving location.

ABBREVIATIONS

a.c.=alternating current
acc.=accepted
Addr.=Address
Adm.=Administration
Ad.=Advertisements, advertising
Af.=Africa
Ag.=Acting
ALF=Annual Licence Fee
AM=Amplitude modulation
Am=America
Amat.=Amateur(s)
Ann.=Announcement (Identification)
Ant.=Antenna
approx.=approximately
Ap.=Apartado
Apr.=April
As.=Asia
Ass.=Association, associate(s)
Asst.=Assistant
Au=Australia
Aug.=August
Av., Ave=Avenida, Avenue

Bc.=Broadcasting
B.P.=Boîte Postale
Bldg.=Building
Br.=British
Broadc.=Broadcast(ing)

Cad.=Cadena
Cas.=Casilla
Cath.=Catholic
Cd.=Ciudad
Ce.=Central
Cel., Cnel.=Coronel
Ch.=Channel; China, Chinese
Chmn.=Chairman
Cl.=Club(e)
Co.=Company
Comm.=Commercial
Contr.=Controller
Corp.=Corporation
C.P.=Caixa Postal
Cra=Carrera
c/s=cycles per second
Cult.=Cultura, Cultural

D=Daily
d.=directional aerial
d.c.=direct current
Dec.=December
Def.=Defense
Dem.=Democratic
Dep.=Deputy
Dept.=Department
Depto.=Departamento
Desp.=Despacho
Dif.=Diffusora, Difusão
Dir.=Director
Dir.Gen.=Director General
Div.=Division
DX=Long distance

E.=English
Ea.=East
EC=Electric Current
E. by R.=English by Radio
Edif.=Edificio
Edo.=Estado
Educ.=Education, Educational, Educadora
Em.=Emis(s)ora
Eng.=Engineer, Engineering
Equip.=Equipment
ERP=Effective radiated power
esq.=esquina
Eu=Europe
exc.=except
Exec.=Executive
exp.=experimental

F.=French
FE=Far East
Feb.=February
Fed.=Federal
FI=Financing, financed
FM=Frequency modulation
F.PL.=Future plans
For.Rel.=Foreign Relations
Fri.=Friday
Freq.=Frequency
Ft.=Fort

G.=German
G.C.=Geographical coordinates given in degrees and minutes
GDR=German Democratic Republic
Gen.Mgr=General Manager
GMT=Greenwich Mean Time
Gov.=Government, Governmental
Gral.=Geral, General
Gr.=Greek
H=Horizontal polarization
h=hour
HQ=Headquarters

I=Italian
ID=(Station) Identification
i.e.=that is
Inc.=Incorporated
incl.=including
Indep.=Independent
Inf.=Information
Int.=International
Int-Sig=Interval Signal
irr.=irregular
Isl.=Island(s)

Jan.=January
Jr.=Jirón

kHz=kiloHertz
kW=kiloWatt

L.=Language(s)
L.L.=Language Lessons
L.N.=Local News
L.P.=Leading Personalities
L.T.=Local Time
Loc.=Location
LW=Longwave

Man.=Managing
ME=Middle East
Met.=Metropolitan
Mgr.=Manager
MHz=MegaHertz
Mil.=Military
Min.=Ministry, Ministerio
Miss.=Missionary
Mon.=Monday
m.b.=metre band
Mbg.=Mailbag
Mpal.=Municipal(Sp.)
Mpo.=Municipio
Mt.=Mount
MW=Mediumwave

N.=News
Nal.=Nacional
Nat.=National
NE=Near East
Netw.=Network
nd=nondirectional antenna
n.f.=nominal frequency
No.=North
Nov.=November
Nte.=Norte
N.Z.=New Zealand

occ.=Occasionally
Oct.=October
Org.=Organisation
Ote.=Oeste

P.=Portuguese
Pac.=Pacific
Pol.=Polarization
Po.=Population
P.R.=People's Republic
Pr.=Private
Pres.=President, Presidencia, Presidente
Prgr.=Programme
Pr.L.=Principal Languages
Prod.=Production
Prot.=Protestant
Prov.=Province, Provincial
Pte.=Presidente, Poniente, Puente
Pto.= Puerto
Pub.=Publication(s)

R=Radio
r=reported (frequency)
Radiodiff.=Radiodiffusion
Rcvrs.=Receivers
Rec.=Recordings
Red.=Rediffusion
Reg.=Regional
Rel.=Relay(ing), Relations
Rep.=Report(s), Republic
Rlg.=Religious
Rp.=Return postage required
Russ.=Russian

S.=San
Sat.=Saturday
Sce.=Service
Sched.=Schedule
Secr.=Secretary
Sen.=Senior
Sep.=September
S/N, s/n=sin (sem) número
So.=South
Soc.=Sociedad(e)
Sp.=Spanish
St.=Station; Saint
Sta.=Santa
Stgo.=Santiago
Sto.=Santo
Str.=Street
Su.=Summer
Sun.=Sunday
Superv.=Supervisor
Syst.=System
SW=Shortwave
So.We.=South West

Te.=Telephone
Techn.=Technical
Terr.=Territory
Thurs.=Thursday
Tr.=Transmisora
Trop.=Tropical
Tues.=Tuesday
TV=Television
Tr=Transmitter

u.c.=under construction
UHF=Ultra High Frequency
UK=United Kingdom
Univ.=University, Universidad(e)
UTC=Coordinated Universal Time

V.=Verification; Vertical polarization
v.=varying
VHF=Very High Frequency

W.=Weekdays; Watt
We.=West
Wed.=Wednesday
Wi.=Winter
Wrp.=Weather report

Abbreviations of broadcasting organisations: ABC =Australian Broadc. Comm – ABU=Asian Broadcasting Union – AFN=American Forces Network – AFRTS=Armed Forces Radio and Television Sce. – AIR=All India Radio – Asociación Interamericana de Radiodifusión – ARD =Arbeitsgemeinschaft der Öffentlichrechtlichen Rundfunkanstalten der Bundesrepublik Deutschland – BBC=British Broadc. Corp. – BCC=Broadcasting Corpo. of China – BFBS=British Forces Broadcasting Service – BFN=British Forces Network – BR=Bayrischer Rundfunk – BRT=Radiodiffusion Television Belge – CBC=Canadian Broad. Corp. – CBU=Caribbean Broadcasting Union – COPE=Cadena de Ondas Populares Española – DLF=Deutschlandfunk – DW=Deutsche Welle – EBU=European Broadcasting Union – FBS=Forces Broadc. Service – FCC=Federal Communications Commission – FEBC=Far East Broadc. Company – HR=Hessischer Rund-

(continued on page 42)

RADIO MOSCOW

daily to:

Europe: in Albanian, Bulgarian, Catalan, Czech/Slovak, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Macedonian, Norwegian, Polish, Portuguese, Romanian, Serbo-Croat, Slovene, Spanish and Swedish.

Africa: in Amharic, Bambara, English, French, Fula/Fulani, Hausa, Lingala, Malagasy, Ndebele, Portuguese, Shona, Somali, Swahili and Zulu.

Near and Middle East: in Arabic, Dari, French, Persian, Pushto and Turkish.

Asia and the Far East: in Assamese, Bengali, Burmese, Chinese, English, Gujarati, Hindi, Indonesian, Japanese, Kannada, Khmer, Korean, Laotian, Malayalam, Marathi, Mongolian, Nepali, Oriya, Punjabi, Sinhalese, Tamil, Telugu, Thai, Urdu, Vietnamese.

USA and Canada: in English.

Latin America: in Portuguese, Quechua and Spanish.

Australia and New Zealand: in English.

Among other features Radio Moscow broadcasts: Russian by Radio, Moscow Mailbag, Science and Engineering, Request Concerts, DX-Club etc.

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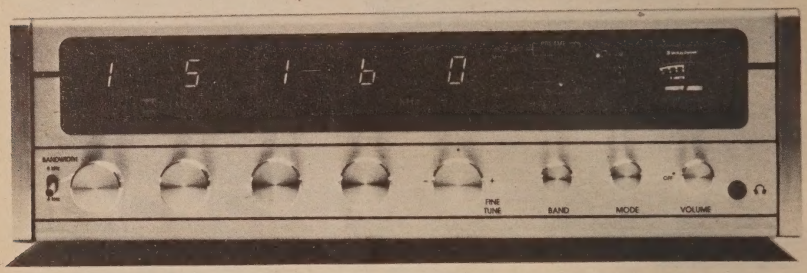

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- Extreme ease of tuning at all frequencies!
- No mechanical tuning dial error or backlash!
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CHECK OUT THESE SPECIFICATIONS:

■ Frequency coverage:	50 kHz to 29.7 MHz, continuous. Digital synthesis in 5 kHz steps, fine tune for ±5 kHz.				
■ Reception modes:	AM, upper sideband, lower sideband, CW.				
■ Sensitivity for 10 dB S + N/N:		50 kHz	100 kHz	200 kHz	300 kHz-29.7 MHz
	CW, SSB	15 μV	10 μV	2.0 μV	1.0 μV
	AM	60 μV	30 μV	6.0 μV	2.5 μV
■ RF bandwidth:	−3dB @ 4 kHz or 8 kHz.				
■ Audio Notch Filter:	5000 Hz.				
■ Audio Output:	2 watts @ 4 ohms, 1 Vrms @ 5000 ohms, internal speaker and external speaker connectors.				
■ Power Consumption:	30 Watts.				
■ Dimensions:	(W x D x H) 17.5 x 14.5 x 5.1 inches (44.4 x 36.8 x 12.9 cm)				
■ Shipping weight:	16 Lbs. (7.3 Kg.)				

DR 22 features and specifications unmatched under $2800.

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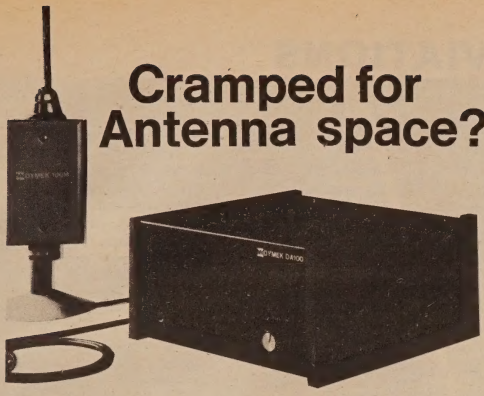

The answer to your problem is here!
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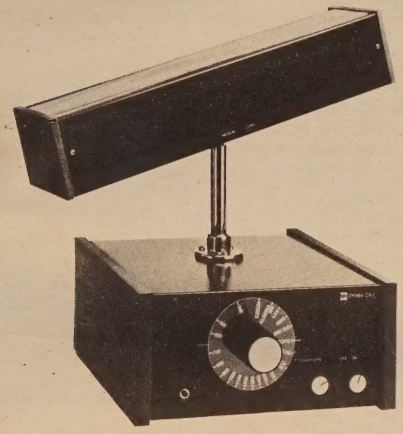
The DA 100 is a compact, wide dynamic range, broadband, untuned, omni-directional receiving antenna covering the frequency range of 50 kHz to 30 MHz.

The exterior module, a small weatherproof box with a 56 inch (142 cm) whip delivers the signal to the power supply unit through a supplied 50′ coaxial cable.

The power supply locates near your general coverage receiver and attaches with a supplied patch cord.

The DA 100 antenna is small, but will equal or outperform a 100′ long wire antenna, and is priced within reach of everyone!



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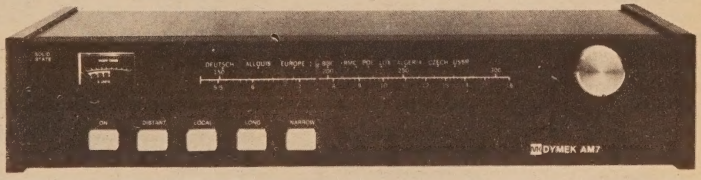
McKay Dymek AM 7 Tuner



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ABRÉVIATIONS

(French version)

a.c.=Courant alternatif
acc.=Accepté
Addr.=Adresse
Adm.=Administration
Ad.=Publicités
Ag.=Agissant
ALF=Taxe annuelle demandée
AM=Modulation d'amplitude
Amat.=Amateurs
Ann.=Annonces, identifications
Ant.=Antenne
approx.=Approximativement
Ap.=Apartado
Apr.=Avril
Ass.=Association
Asst.=Assistant
Aug.=Août
Av, Ave.=Avenida, Avenue

Bc.=Radiodiffusion
B.P.=Boîte Postale
Bldg.=Construction
Br.=Britannique
Broadc.=Emet, diffusant

Cad.=Cadena
Cas.=Casila
Cath.=Catholique
Cd.=Ciudad
Ce.=Central
Cel.=Coronel
Ch.=Chine, Canal, Chinois
Chms.=Président
Cl.=Club(e)
Co.=Compagnie
Comm.=Commercial
Contr.=Contrôlé
Corp.=Corporation
C.P.=Case Postale
Cra.=Carrera
C/S=Cycle par seconde
Cult.=Culturel, Culture

D=Quotidien
d=directionnelle (antenne)
d.c.=courant, direct
Dec.=Décembre
Def.=défense
Dem.=démocratique
Dep.=député
Dept.=Département
Deto.=Département
Desp.=Despacho
Dif.=Diffusion, difusão
Dir.=Directeur
Dir.Gen.=Directeur général
Div.=Division
DX=Longue distance

E.=Anglais
Ea.=East, Est
EC=Courant électrique
EbyR=L'Anglais par la radio
Edif.=edificio
Edo.=Estado
Educ.=Education, Educationnel, Educadora
Em.=Emis, Emissora
Eng.=Ingénieur
Equip.=Équipement
ERP=Puissance apparente rayonnée
esq.=esquina
Exc.=excepté
Exec.=Executif
exp.=expérimental

F.=Français
Feb.=Février
Fed.=Fédéral
FI=Financé
FM=Modulation de fréquence
F.PL.=Plans futures
For.=étranger, extérieur
For. Rel.=Relation extérieure
Fri.=Vendredi
Freq.=Fréquence
Ft.=Fort

G.=Allemand
G.C.=Coordonnées géographiques
Gen.Mgr.=Responsable général
GMT=Temps moven de Greenwich
Gov.=Gouvernement
Gral.=Général
Gr.=Grec

H=Horizontale (Polarization)
h=heure
HQ=Quartier général

I=Italien
ID=Identification
i.e.=par exemple
Inc.=Incorporated
incl.=Inclu
ind.=indépendant
Inf.=information
Int.=International
Int-Sig.=Signal interval
irr.=irrègulier (ère)
Isl.=Ile(s)

Jan.=Janvier
Jr.=Jiron

kHz=Kilohertz
kW=Kilowatt

L=Langue
L.L.=Leçon de langue
L.N.=nouvelles locales
L.P.=Personalité principale
L.T.=Heure locale
Loc.=situation

Man.=Responsable
Met.=métropolitain
Mgr.=Manager
MHz=Mégahertz
Mil.=Militaire
Min.=Ministre
Miss.=missionnaire
Mon.=Lundi
m.b.=Bandes en mètres
Mbg.=Courrier
Mpal.=municipal
Mpo.=Municipo
Mt.=Mont
MW=Ondes moyennes

N=Nouvelles, Informations
Nal.=Nacional
Nat.=National
Net.=Chaîne
n.d.=non directionnel
n.f.=Fréquence nominale
No.=Nord
Nov.=Novembre
Nte.=Norte

Occ.=Occasionnel
Oct.=Octobre
Org.=Organisation
Ote.=Oeste

P=Portugaise
Pac.=Pacifique
Pol.=Polarisation
Po.=Population
PR.=République populaire
Pr.=Privé
Pres.=Président, présidencia, Presidente
Prgr.=Programme
Pr.L.=Languages principales
Prod.=Production
Prov.=Province, Provincial-
Pte.=Présidente, Poniente
Pto.=Puerto
Pub.=Publication(s)

R=Radio
r=fréquence reportée
Radiodiff.=Radiodiffusion
Rcvrs.=Récepteurs
Rec.=enregistrement
Reg.=régional
Rel.=Relais, Relations
Rep.=Reports, république
r.f.=fréquence reportée
Rlg.=religieux
Rp.=Frais de retour requis
Russ.=Russe

S=Samedi
Sce.=service
Sched.=programme-horaire
Secr.=secrétaire
Sen.=senior
Sep.=septembre
So.=Sud
Soc.=Sociedad
Sp.=Espagnol
St.=Station, Saint
Sta.=Santa
Stgo.=Santiago
Sto.=Santo
Str.=Rue
Su.=été
Sun.=Dimanche
Superv.=Supervisé
Syst.=Système
SW=Ondes courtes
So.We.=Sud-ouest

Te.=téléphone
Techn.=Technique
Terr.=territoire
Thurs.=Jeudi
Tr.=Transmisora
Trop.=Tropical
Tues.=Mardi
TV=Télévision
Tx=transmetteur

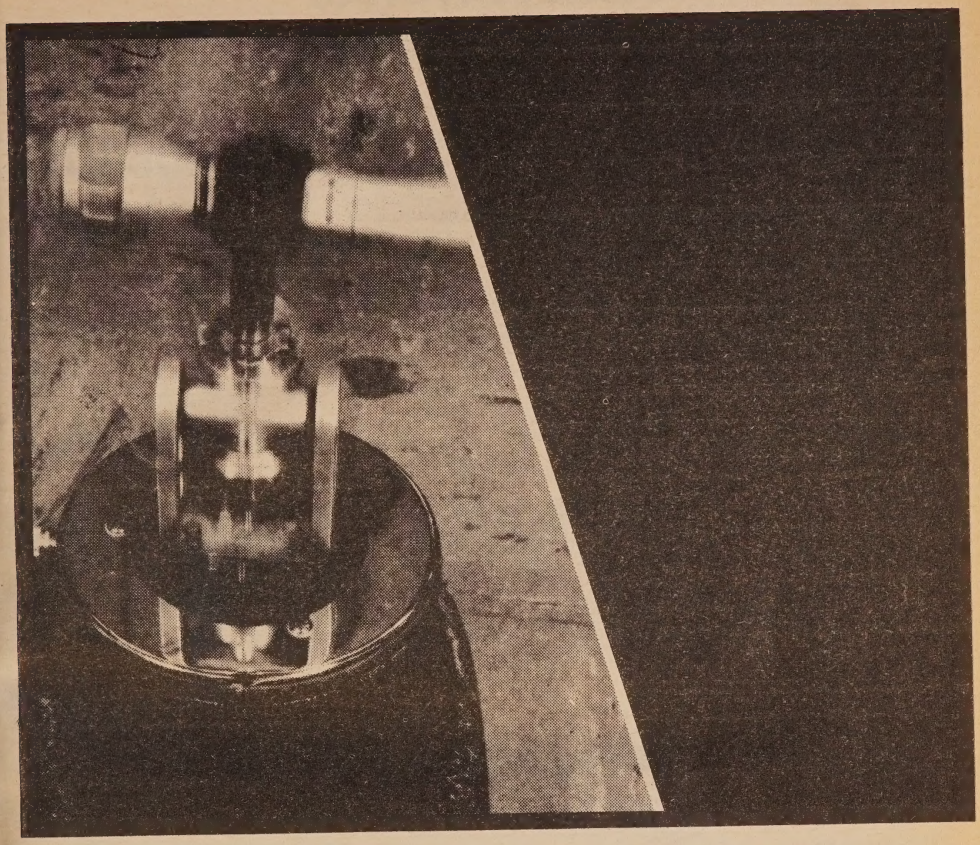
u.c.=en construction
UHF=Ultra haute fréquence
Univ.=Université
V=Vérification
v=varié
v.f.=Fréquence variable
VHF=Très haute fréquence

W=jours de travaille; Watt
We.=Ouest
Wed.=Mercredi
Wi.=Hiver
Wrp.=rapports météorologiques

Abbreviations (from page 38)

funk – IBA=Independent Broadcasting Authority – IBI=International Broadcast Institute – ITU=International Telecommunication Union – NDR=Norddeutscher Rundfunk – NHK=Nippon Hoso Kyokai – NRK=Norsk Rikskringkasting – NZBC=New Zealand Broadcasting Corporation – OIRT=International Radio & Television Organisation – ORF=Osterreichischer Rundfunk – RAE=Radiodiffusion Argentina al Exterior – RAI=Radiotelevisione Italiana – RBI=R. Berlin International – REM=Red de Emisoras del Movimiento – RFE=Radio Free Europe – RIAS=Rundfunk in Am. Sector – RNE=Radio Nacional de España – RRI=Radio Republik Indonesia – RSA=Radio South Africa – RTB=Radiodiffusion Television Belge – SABC=So. African Broadc. Corpo. – SBC=Swiss Broad. Corpo. – SDR=Süddeutscher Rundfunk – SER=Sociedad Española de R. dif. – SFB=Sender Freies Berlin – SDR=Süddeutscher Rundfunk – SR=Sveriges Radio – SWF=Südwestfunk – TRT=Turkish Radio-Television Establishment – TWR=Trans World Radio – VOA=Voice of America – WDR=Westdeutscher Rundfunk – UN=United Nations – URTNA=Union of National Radio & Television Organisations of Africa – ZDF=Zweites Deutsches Fernsehen.

For further abbreviations used in the tables Long-, Medium- and Shortwave Stations of the World please refer to the respective pages.



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ABREVIATURAS

(Spanish version)

(No se incluyen las abreviaturas comunmente usadas en español)

a.c.=corriente alterna
acc.=se acepta
Addr.=Dirección postal
Ad.=Publicidad
Af.=Africa
Ag.=Interino
ALF=Tarifa de licencia anual
Am.=América
Amat.=Amateur, radio-aficionado
Ann.=Anuncio (de identificación)
As.=Asia
Asst.=Asistente, Sub-
Au.=Australia
Aug.=Agosto

Bc.=Radiodifusión
B.P.=Boite Postale (Apdo. postal)
Bldg.=Edificio
Broadc.=Radiodifusiôn; Emisión

Ch.=Canal; China, chino
Chmn.=Presidente
Contr.=Interventor
c/s=ciclos por segundo

D.=Diario, diariamente
d.=antena direccional
d.c.=corriente continua
Def.=Defensa
Dep.=Suplente (Subdirector)
DX=Larga distancia

E.=Inglés
Ea.=Este
E.C.=Corriente elétrica
E. by R.=Inglés por radio
Eng.=Ingeniero; ingenieria
ERP=Potencia irradiada efectiva
Eu.=Europa
exc.=excepto, salvo
Exec.=Ejecutivo

F.=francés
FE=Lejano Oriente
FI=Financiación
F.PL.=Proyectos
For.-Rel.=Relacionales internacionales
Fri.=viernes
Freq.=frecuencia
Fq.=frecuencia

G.=aleman
G.C.=coordenadas geográficas en grados y minutos
GB=Gran Bretaña
GDR=Rep. Democrática Alemana
GMT=Hora del meridiano de Greenwich, HMG
Gov.=Gobierno, gubernamental
Gr.=griego

H.=polarizacion horizontal
h.=hora(s)
HQ=Cuartel general

I.=Italiano
ID=Identificatión
i.e.=quiere decir, o sea
Inf.=Informaciones, noticias
Int-Sig.=Señal de pausa, sintonia
Isl.=Isla(s)

Jan.=Enero

kHz=kilohertzios
kW=kilovatios

L.=Lengua(s)
L.L.=Curso de lengua
L.N.=Noticias locales
L.P.=Personal directivo
LP=Pequeña potencia
L.T.=Hora local
Loc.=Ubicacion; Programación local

Man.=Gerente
Mbg.=Buzó radiofónico
Mgr.=Gerente
m.b.=banda, longitud de onda
MHz=Megahertzios
ME=Cercano Oriente
MW=Onda media (onda larga)

N.=Boletín de noticias
Netw.=Red, cadena
NE=Próximo Oriente
n.f.=Frecuencia nominal (anunciada)
No.=Norte
NZ=Nueva Zelanda

occ.=a veces, en ocasiones

P.=portugués
Po.=Número de habitantes
P.R.=República Popular
Pr.=Privado, particular
Prgr.=Programa
Pr.L.=Principales idiomas

r=(frecuencia) eschuchada (en desacuerdo con la información oficial)
Rcvrs.=Receptores
Rec.=Grabaciones
Red.=Redifusión (transmisión por línea telefónica)
Rel.=Retransmisor, retransmisión; Relaciones
Rep.=Reportaje(s); República
r.f.=frecuencia reportada
Rlg.=Religioso
Rp.=Franqueo de contestación necesario
Russ.=ruso

Sat.=sábado
Sce.=Servicio
Sched.=Lista de programas y frecuencias
Secr.=Secretario (a)
So.=Sur, Sud
Sp.=español
St.=Estación emisora
Str.=Calle
Su.=Verano (Mayo a Sepbre approx.)
Sun.=Domingo
Syst.=Sistema
SW=Onda corta
So.We.=Suroeste

Te.=Teléfono
Techn.=Técnico
Thurs.=jueves
Tues.=martes
Tx=Transmisor

u.c.=en construcciôn
UK=Reino Unido

V.=Confirmación por QSL; polarizacion vertical
v.=variable
v.f.=frecuencia variable

W.=Días laborables; Vatios
We.=Oeste
Wed.=miércoles
Wi.=Invierno (Novbre a Feb. approx.)
Wrp.=Boletin meteorológico

MESSAGE FROM THE EDITOR

It is with great pleasure that I present this 31st edition of the "World Radio TV Handbook". Containing French, Spanish and German versions of "How to use the WRTH" it is my hope that a still wider circulation is assured.

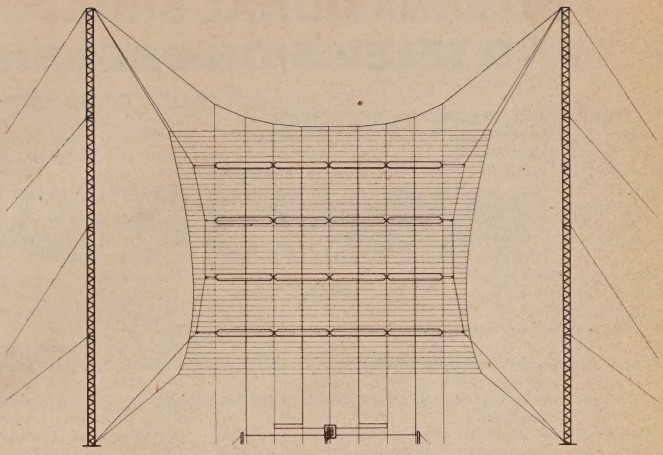
Continued from the foregoing year this edition also contains a special "Listen to the World" section with features of interest to listeners everywhere, and I want especially to draw the attention to the article "The Prolonged Sunspot Minimum", which concludes that the remainder of this century with low solar activity will challenge the skill and patience of the shortwave listener.

I wish to express my gratitude to the BBC Monitoring Service, all authors and broadcasting organisations and all our cooperators and monitors around the world. The help which they continue so willingly to give is of greatest value, and considerably enhances the usefulness of this Handbook.

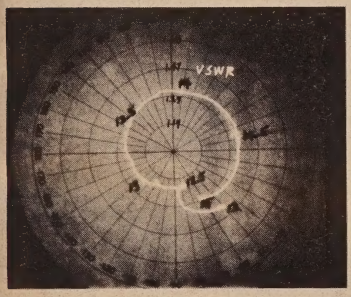
I am particularly grateful to those members of the Arctic Radio Club, Sweden, the Danish Shortwave Clubs International and Mr. Robert Veltmeijer of São Paulo, Brazil, who have given me invaluable assistance in the updating of the present volume.

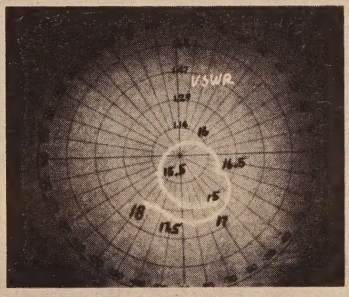
J. M. Frost

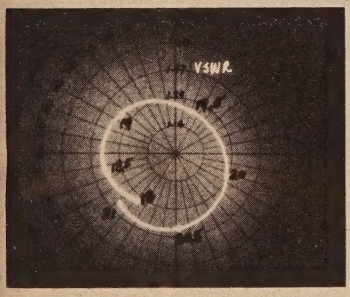
Four Adjacent Bands on one TCI Shortwave Broadcast Antenna

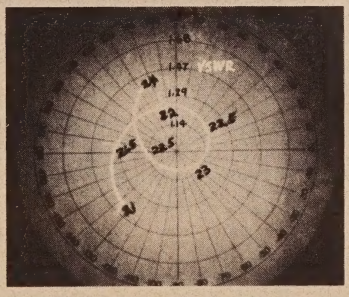


TCI Dipole Curtain Antennas, Model 611









- **High Power**
- **High Power Gain**
- **Wide Band**
- **Slewable**
- **Rugged Construction**
- **Factory Pre-assembled for easy and quick installation**

Impedance measurements showing VSWR less than 1.43:1 across entire frequency bandwidth of 2:1 (in this case 12 MHz-24 MHz).

Dipole curtain antennas have long been favored for high-power shortwave broadcasting. Historically, these antennas have had several undesirable traits: narrow bandwidth, extensive fabrication necessary in the field, complicated and time-consuming installation, and materials being subject to corrosion.

Wide-band techniques developed at TCI make it possible to supply dipole curtain antennas with frequency bands in excess of 2:1. In most cases, this bandwidth encompasses 4 adjacent broadcast bands. One TCI four-band antenna replaces four single frequency antennas with the associated savings in land, antenna cost, transmission lines, switching, and installation cost.

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Headquarters: 1, rue de Varembé, Case postale 198, CH-1211 Geneva 20, Switzerland. **Cables:** Uniradio Geneva. **Te:** Geneva 33 24 00. **Telex:** 22230 (General), 27085 (Radio and TV).
Technical Centre: 32, Av. Albert Lancaster, B-1180 Brussels, Belgium. **Cables:** Uniradio Brussels. **Te:** Brussels 374 58 30. **Telex:** 21230, 21939, Receiving and Measuring Station: Jurbise, Belgium. Eurovision Control Centre: Palais de Justice, Brussels, Belgium.
Administrative Council: President: Sir Charles Curran, BBC(UK). Vice-Presidents: J. Autin, TDF(France), Dr. O. Oberhammer, ORF(Austria). Administrators: Representatives of broadcasting organisations in Austria(ORF), France(TDF), Greece(EPT), German Fed. Rep.(ARD), Ireland(RTE), Italy(RAI), Morocco(RTM), Netherlands (NOS), Norway(NRK), Spain(RTVE), Sweden(SR), Switzerland(SSR), Turkey(TRT), United Kingdom(BBC), and Yugoslavia(JRT).
Secretary Gen: Dr. R. de Kalbermatten.
Dir. of Legal Affairs Dept: Dr. M. Cazé.
Dir. of Technical Centre: R. Gressmann.
Dir. of Television Programme Dept: M. Vilcek.
Dir. of Radio Programme Dept: A.M. Dean.
Active Members: Broadcasting organisations in: Algeria(RTA), Austria(ORF), Belgium(RTB/BRT), Cyprus(CyBC), Denmark(DR), Finland(YLE), France(TDF, TF1), German Fed. Rep.(ARD, ZDF), Greece(EPT), Iceland(RUV), Ireland(RTE), Israel(IBA), Italy(RAI), Jordan(JTV), Lebanon(RL), Libya(PRBC), Luxemburg(RTL), Malta(MBA), Monaco(RMC), Morocco(RTM), Netherlands(NOS), Norway(NRK), Portugal(RDP, RTP), Spain(RTVE), Sweden(SR), Switzerland(SSR), Tunisia(RTT), Turkey(TRT), United Kingom(BBC, UKIBA/ITCA), Vatican State(RV), Yugoslavia(JRT).
Supplementary Active Members: France(Radio France, A2.FR3).
Associate Members: Broadcasting organisations in Argentina(LS82TV, RPT), Australia(ABC, FACTS), Bangladesh(BTV), Bahamas(BCB), Barbados(CaBC), Brazil(ABERT, TUPI, REI, RTVBa, TVG), Canada(ATEC, CBC, CTV), Chile(TVC, UCCTV), Colombia(INRV), Congo(RTC), Ecuador(4TA), Egypt(ERTC), Gabon(RTG), Ghana(GBC), Guyana(GBS), Hong Kong(HK-TVB), Indonesia(RRI, TVRI), Iran(NIRT), Iraq(IBTCE), Ivory Coast(RTI), Jamaica(JBC), Japan(FTC, MBS, NACB, NET, NHK, NTV, TBS), Kenya(VOK), Korea(KBS), Kuwait(KBTS), Liberia(LBC), Madagascar(RTNM), Malawi(MBC), Malaysia(RTVM), Mexico(CMRT, TVA), New Zealand(BCNZ), Niger(ORTN), Nigeria(NBC), Oman(ODGRT), Pakistan(PTC), Papua New Guinea(PNG/BC), Qatar(QTBS), Rhodesia(RBC), Senegal(RTS), Sri Lanka(SLBC), Sudan(STS), Tanzania(RTD), United Arab Emirates(DCRTV, UAERTV), United States(ABC, CBS, CPB/PBS/NPR, EBC, NBC, USIA), Upper Volta(RTV), Venezuela(VV), Zaire(VZ).
Publications: EBU Review – every month in English and French, published in two separate editions – Geneva (Programmes, Administration, Law) and Brussels (Technical) – Technical Documents – Technical Information Sheets – General, Legal and Technical Monographs – Lists of European Stations (long- and mediumwaves, VHF sound broadcasting, and television) – Reports of seminars and workshops for producers and directors of educational television and of programmes for children and young people.

Every month first-hand information on the world of broadcasting is offered to you in the

EBU REVIEW

Published in English and French by the
European Broadcasting Union

The Brussels edition (Technical) will keep you informed of all new technical developments in sound and television broadcasting.

—Articles written by specialists describe typical new installations, new operational methods and research work undertaken by the broadcasting organisations.

—The "International News" section is devoted to news items reported by EBU Members concerning the installation and operation of transmitting stations and studio centres, recording equipment and outside broadcasting facilities, both for sound and for television.

—Each number gives a summary of the changes that have taken place during the previous two months in the spectra of the long, medium and metric (FM) sound broadcasting wavebands and of the television wavebands.

The Geneva edition (Programmes, Administration, Law) brings you authoritative reports on radio and television developments throughout the world in the non-technical fields.

—Specialists write on the latest trends in production, programming, and administration.

—Activities are reported from the international sphere, and from broadcasting organisations in nearly 80 countries.

—Experts analyse legislation and jurisprudence touching on broadcasting, international conventions, etc.

—Special numbers give in-depth coverage of key subjects, including satellite broadcasting; television news exchange; colour television; youth news, educational, wildlife, sport, religious, and agricultural programming; Eurovision developments; graphics and design.

ANNUAL SUBSCRIPTION

Brussels edition (six numbers): 550 Belgian francs. Publishers: EBU Technical Centre, 32 Avenue Albert Lancaster, B-1180 Brussels, Belgium.

Geneva edition (six numbers): 45 Swiss francs. Publishers: EBU case postale 193, CH-1211 Geneva 20, Switzerland.

A combined subscription to both editions (12 numbers) may be ordered from the EBU Geneva (price 86 Swiss francs).

Purpose: The EBU was founded on 12 February 1950 and is a system of international broadcasting cooperation which includes the world famous Eurovision news and programme exchanges. The purpose is to support in every domain the interests of Members and to assist generally the development of radio and television worldwide. There are currently 105 members in 75 countries.
Organisation: Supreme authority is vested in the General Assembly composed of all Members. The Assembly elects a 15-man Administrative Council with executive powers.

The activities of the EBU are channelled through the Television Programme Committee, the Radio Programme Committee, the Legal Committee and the Technical Committee, with their Working Parties, Sub-Groups and ad hoc Groups. The Committees, although independent of each other, work closely together on all matters of common interest. The EBU has, in addition, a permanent staff of some 200 people, including administrative, legal and technical officials.

INTERNATIONAL RADIO AND TELEVISION ORGANISATION (OIRT)

Addr: 15, U Mrázovky, Prague 5, Czechoslovakia. **Cable:** Interadif, 151 13, Prague 5.
Nature: International Organisation dealing with practical and theoretical questions connected with broadcasting and television prgrs. and technique and cooperation between broadcasting and television organisations.
Governing Body: General Assembly consisting of one representative for each active member.
Administrative Council: Consisting of 7 to 13 members.
Members: People's Republic of Bulgaria, Czechoslovak Socialist Rep, Republic of Cuba, German Democratic Rep, Hungarian People's Rep, Poland People's Rep, Union of Soviet Socialist Rep, Finland, Latvian Soviet Socialist Rep, Mongolian People's Rep, Rumanian Socialist Rep.
OIRT-Members: Radio and Television Organisations of: People's Rep. of Albania; Algeria; Byelorussian SSR; People's Rep. of Bulgaria; Chinese People's Rep; Rep. of Cuba; Czechoslovak Socialist Rep; Arab Republic of Egypt; Estonian SSR; Finland; German Democratic Rep; People's Rep. of Hungaria; Iraq; People's Dem. Rep. of Korea; Latvian SSR; Lithuanian SSR; Rep. of Mali; Moldavian SSR; People's Rep. of Mongolia; People's Rep. of Poland; Rumanian Socialist Rep; Sudan(Television); Ukrainian SSR; Union of Soviet Socialist Rep; People's Rep. of Vietnam.
Publications: Review of the International Radio and Television Organisation(OIRT) "Radio-Television" in English-French, Russian and German, issued every two months; Monthly OIRT Information.
Meetings: General Assembly every year and Administrative Council once a year.
Relations: With all important organisations active in the field of radio and television.

ASIAN-PACIFIC BROADCASTING UNION

c/o Box 33-200, Tehran, Iran. **Telex:** 2797 Tehran. Technical Centre: c/o Department of Broadcasting, Angkasapuri, Kuala Lumpur, Malaysia. **Cable:** ASBUN Kuala Lumpur. President: T.S. Duckmanton, Gen.Mgr. Australian Broadcasting Commission. Vice-Presidents: P.C. Chatterji. Dir.Gen. All India Radio; Abdullah Mohamad, Dir.Gen. Radio-Television Malaysia.
Secretary-General: Dr. Kambiz Mahmoudi.
Administrative Council: Australian Broadcasting Commission, Radio and Television People's Republic of China, Fiji Broadcasting Commission, All India Radio, National Iranian Radio and Television, Nippon Hoso Kyokai (Japan), Pakistan Broadcasting Corporation, Philippines Broadcasting Service, Radio-Television Singapore, Radio Thailand.
Full Members: Radio Afghanistan, Australian Broadcasting Commission, Radio Bangladesh, Radio and Television People's Republic of China, Egyptian Radio and Television, Fiji Broadcasting Commission, All India Radio, Radio Republik Indonesia/Televisi Republik Indonesia, National Iranian Radio and Television, Nippon Hoso Kyoki (Japan), Jordan Television Corporation, Korean Broadcasting System (Republic of Korea), Srí Lanka Broadcasting Corporation, Radiodiffusion Nationale Lao, Radio-Television Malaysia, Radio Nepal, Broadcasting Council of New Zealand, Pakistan Broadcasting Corporation, National Broadcasting Commission of Papua New Guinea, Philippines Broadcasting Service, Saudi Arabian Radio and Television, Radio-Television Singapore, Radio Thailand, Tonga Broadcasting Commission, Turkish Radio and TV Corporation, National Broadcasting Service of Vietnam, Samoa Broadcasting Service (Western Samoa).
Additional Full Members: Television Broadcasts Ltd (Hong Kong), Educational Radio and Television of Iran, Doordarshan (India), Pakistan Television Corporation Ltd, Kanlaon Broadcasting System Inc (Philippines), National Radio and Television Service of Qatar.
Associate Members: Federation of Australian Radio Broadcasters, Bangladesh Television, Radio-Television Brunei, Canadian Broadcasting Corporation, Telediffusion de France, ARD (Federal Repub. of Germany), Zweites Deutsches Fernsehen (Fed. Repub. of Germany), Gilbert Islands Broadcasting Service, Pacific Broadcasting Corporation (Guam), Radio-Television Hong Kong, Commercial Broadcasting Co. Ltd (Hong Kong), Rediffusion Television Ltd (Hong Kong), Commercial Television Ltd (Hong Kong), Iraqi Broadcasting and Television Establishment, National Association of Commercial Broadcasters in Japan, Fuji Telecasting Company Ltd (Japan), Jugoslovenska Radiotelevizija, Munhwa Broadcasting Corporation (Repub. of Korea), Tong-yang Broadcasting Corporation (Repub. of Korea), Compagnie de Television du Liban et de Proche Orient (Lebanon), Mauritius Broadcasting Corporation, Micronesian Broadcasting Service, Nederlandse Omroep Stichting, Federation of Independent Commercial Broadcasters Ltd (New Zealand), Nigerian Broadcasting Corporation, University of Mindanao Broadcasting Network (Philippines), Solomon Islands Broadcasting Service, Sveriges Radio, SwissBroadcasting Corporation, British Broadcasting Corporation, Independent Broadcasting Authority and Independent Television Companies Assoc. Ltd (UK), American Broadcasting Companies Inc (USA), Columbia Broadcasting Company Inc (USA), National Broadcasting Company Inc (USA), National Association of Broadcasters (USA), Corporation for Public Broadcasting /Public Broadcasting Service/National Public Radio (USA), Voice of America.
Publications: ABU Newsletter (monthly), ABU Technical Review (bi-monthly). Both in English.

UNION OF NATIONAL RADIO AND TELEVISION ORGANISATIONS OF AFRICA (URTNA)

Secretariat General: 101, rue Carnot, B.P. 3237, Dakar, Senegal. **Te:** 313 04. **Cable:** URTNA, Dakar. **Telex:** 650.
Technical Centre: B.P. 39, Bamako (Mali). **Te:** 225 93. **Cable:** URTNA, Bamako.
Markala Monitoring Centre: c/o Technical Centre, Bamako (Mali).
Programme Exchange Centre: Will soon become fully operational with headquarters in Nairobi (Kenya). As a temporary measure the Secretariat General is responsible for all matters on programme exchange.
Aims: URTNA has no commercial aim. Its objectives among others are: a) to promote, maintain and develop cooperation between its members; b) to support in every domain the interests of radio and television organisations which have accepted its statutes and to establish relations with other such organisations; c) to promote and coordinate the study of all matters relating to radio and television and to ensure the exchange of information on all questions of general interest; d) to promote and take all measures designed to assist the development of African radio and television in all its forms.
Governing Bodies: Pres: Ben Soumahoro (Ivory Coast). 1st Vice-Pres: (Ghana). 2nd Vice-Pres: (Algeria). The three constitute the Bureau of the Union elected to serve two years (Jan. 76 to Dec. 77).
Secretary Gen: Abdelkader Marzouki (Tunisia). Elected to serve 4 years.
Legal Adviser: Rabia Hamimi (Algeria).
Administrative Council (Jan. 76 – Dec. 77): Algeria, Cameroon, Ghana, Ivory Coast, Kenya, Libya, Mali, Niger, Nigeria, Senegal, Sierra Leone, Somalia.
Specialised Commissions (Jan. 76 – Dec. 77):
1. **Technical Commission:** Ghana(Chmn), Benin(Vice-Chmn), Egypt, Mali, Nigeria.
2. **Administrative and Legal Commission:** Upper Volta (Chmn), Morocco(Vice-Chmn), Tunisia, Kenya, Nigeria.

telecommunication journal

In the increasingly international age in which we live, it is more important than ever that everyone connected with radio should be in touch with authoritative world opinion on radio matters. The Telecommunication Journal, the official organ of the International Telecommunication Union (ITU), serves just this purpose. Since 1869 (when it first appeared as the "Journal Télégraphique") it has faithfully covered all aspects of telecommunications which come within the purview of the world organisation (now a UN specialized agency) set up in 1865 to regulate them.

The journal contains

- a news section covering the activities of the ITU, of its Member Administrations and of private operating companies and highlighting technical advances in radio throughout the world —
- a list of satellite launchings notified during the previous month —
- a section entitled "Ideas and Achievements" which covers the major developments of telecommunications in the various Member Administrations —
- articles by world experts, with a heavy emphasis recently on the latest developments in space communications —
- a comprehensive list of articles of telecommunication interest appearing in the scientific press throughout the world —
- official ITU information, including lists of forthcoming ITU Conferences and other international telecommunication meetings —
- monthly sunspot predictions —
- a radio-amateur's column —
- section giving details of invitations to tender released by the various Member Administrations concerning telecommunication installations.

It is published monthly by the ITU in separate English, French and Spanish editions.

It costs 7.5 Swiss francs a copy. The annual subscription is 75 francs for one language edition, 150 francs for two and 225 francs for three.

For further information, write to: Telecommunication Journal, ITU, Place des Nations, 1211 Geneva, Switzerland.

AUTHORITATIVE READABLE COMPREHENSIVE

3. **Programme Exchange and Cultural Affairs Commission:** Sudan(Chmn), Kenya(Vice-Chmn), Ghana, Togo, Zaire.
Active Members: Radio and Television organisations in Algeria, Angola, Benin, Cameroon, Cape Verde Islands, Chad, Congo, Egypt, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Liberia, Libya, Mali, Mauritania, Morocco, Niger, Nigeria, Senegal, Sierra Leone, Somalia, Sudan, Tanzania, Togo, Tunisia, Upper Volta, Zaire, Zambia.
Associate Members: ARD(W. Germany); JRT(Yugoslavia); NIRT(Iran); PLP(Palestine); SSR(Switzerland); RTE(Ireland); TDF(France); ZDF(W. Germany).
FI: Subscriptions and contributions from active and associate members based on their countries' populations.
Consultative Status: Has an observer status with the OAU, UNESCO, ITU, ASBU, EBU, ABU.
Publications: "URTNA Review" published quarterly in English and French; Summary Records; Reports.

ARAB STATES BROADCASTING UNION (ASBU)

Nature: Intergovernmental union within the framework of the League of Arab States comprising the Arab Radio and TV organisations (established February 1969).
Supreme Body: General Assembly, meeting in ordinary sessions once a year. The Presidency of the Gen.Ass. held in rotation among the full members according to the alphabetical order of the names of the member States. The term of office: one year. The Vice-Presidency held by the member who shall assume the Presidency at the next session.
Administrative Council: Pres.+Vice-Pres.+one full member according to the alphabetical order of the names of the member States.
General Secretariat: 22a Taha Hussein St, Zamalek, Cairo, Egypt. **Cable:** Asbunion, Cairo.
Secretary Gen: Salah Abdel Kader.
Technical Centre: P.O. Box 2231, Khartoum, Sudan. Dir: Dr. Ahmed Youssef.
Training Centre: P.O. Box 6333, Damascus, Syria. Dir: Kheidr El Sha'ar.

CARIBBEAN BROADCASTING UNION (CBU)

The CBU is an association of National Broadcasting Systems of the Commonwealth, Caribbean and other Regional States formed for the purpose of promoting and facilitating interchange between member countries through the medium of Broadcasting.
Headquarters: c/o The Caribbean Community Secretariat, 3rd Floor, Bank of Guyana Building, Georgetown, Guyana, South America. **Te:** 69281. **Cable:** CBU-Caribsec – Dir.Gen: H.N.J. Cholmondeley.
Members: Antigua and Barbuda Broadcasting Service, Broadcasting Corporation of the Bahamas, Caribbean Broadcasting Corporation(B'dos), Radio Belize, Radio Grenada, Guyana Broadcasting Service, Jamaica Broadcasting Corporation, Radio Montserrat, Radio Antilles, Radio St. Lucia, Radio St. Kitts(ZIZ), Radio Dominica, National Broadcasting Service of Trinidad and Tobago, Netherlands Antilles Television Service, Surinam Television Service, Radio St. Vincent, Bermuda Broadcasting Company, Trinidad and Tobago TV Company, Radio Trinidad, Barbados Rediffusion, Radio Demerara(Guyana) and Radio Jamaica Rediffusion.

ASOCIACIÓN INTER-AMERICANA DE RADIODIFUSIÓN (AIR)
Inter-American Association of Broadcasters (IAAB)

Addr: Central Office: Calle Yí 1264, Montevideo, Uruguay. **Te:** 8-4456. **Cable:** AIRADIO. **Telex:** M. CARLO UY 834, Montevideo.
L.P: Dir.Gen: Dr. Luis Alberto Solé(Uruguay). Pres: Dr. José de Almeida Castro(Brasil). 1st Vice-Pres: Don Héctor Amengual(Uruguay). 2nd Vice-Pres: Don Emilio Nassar Jr(México). Secr: Dr. Carlos Figueroa Serrano(Chile). Treasurer: Arch Madsen(USA).
Other Board Members: Dr. Oscar Garibaldi(Argentina), Raúl Salmón(Bolivia), Donald Hamilton(Canada), Eduardo Cevallos(Ecuador), Boris Eserski(El Salvador), José Gabriel Díaz(Panamá), Pedro Justiniano Polanco(Rep. Dominicana), Ramón Ramírez(México), Fernando Londoño(Colombia).

The IAAB represents all private radio and television stations of the three Americas.

INTERNATIONAL BROADCAST INSTITUTE

Headquarters: Tavistock House East, Woburn Walk, Tavistock Square, London, WC1H 9LG. **Te:** (01) 388 0671. **Cable:** Widecast London. **Telex:** 24578.

Officers: Honorary Chmn: Yoshinori Maeda(Japan). Chmn: Jean d'Arcy(France). Vice-Chmn: Mehra Masani(India), Richard H. Nolte(USA). Treasurer: Thomas P. Hardiman(Ireland). Chmn, Exec-Committee: Gerald Long(UK). Exec.Dir: Edward W. Ploman.

Trustees: Miguel Alemán(Mexico), Klaus von Bismarck(W. Germany), Asa Briggs(UK), Guillermo Cañedo(Mexico), A.A. Cocca(Argentina), W.F. Coleman(Ethiopia), Sir Geoffrey Cox(UK), Roger Errera(France), Luis Ezcurra(Spain), Joseph M. Goldsen(USA), Hilde Himmelweit(UK), Neville D. Jayaweera(Sri Lanka), Leland L. Johnson(USA), Hamdy Kandil(AR Egypt), Umar Kayam(Indonesia), John W. Kiermaier(USA), Christopher Kolade(Nigeria), Saad Labib(Iraq), Elmer Lower(USA), Tomo Martelanc(Yugoslavia), Robert McKenzie(UK), Narayana Menon(India), Sig Mickelson(USA), Sir Charles Moses(Australia), C. Nascimento(Guyana), Kichiro Ono(-Japan), Laurent Picard(Canada), Olof Rydbeck(Sweden), Ali M. Shummo(Sudan), Joseph Slater(USA), Ithiel de Sola Pool(USA), Shinzo Takahashi(Japan), Ronald Waldman(UK).

The Institute, formally established in September 1968, was founded to provide an international, cross-disciplinary forum for independent analysis of the social, economic, political, cultural and legal issues related to the effects of communications, particularly broadcast media, on societies and individuals. The IBI promotes research, disseminates information on world development in communications, technology and research, promotes international exchange of experience and opinion through conferences, symposia and workshops. The Institute has sponsored international conferences on problems of television news coverage, the new communications technology and its social consequences; current research projects include studies of the legal aspects of satellite broadcasting; present satellite tariff practices; comparative cross-national investigation into factors influencing the selection and production of television news; the role of broadcast media in development processes. The Institute publishes a regular magazine "Intermedia" and a series of monographs. Interested individuals may become Voting or Supporting Members. Supporting membership is also open to institutions, organisations, foundations and corporations.

UNESCO

(United Nations Educational, Scientific and Cultural Organisation).

Addr: 7 Place de Fontenoy, 75700 Paris, France.

L.P: Dir.Gen: Amadou Mahtar M'Bow.

OFFICE OF PUBLIC INFORMATION: Dir: Leon Davico.

Press and Audio-Visual Information Division: Chief: Gerald S. Wade. Regional Units: Paul Bordry(French language production), Philip Gaunt(English language production), Mrs. Maria Sanchez-Guerra de Garza(Spanish language production), Anatoli Volkov(Russian language production). Film and TV Officer: Jehangir S. Bhownagary.

CULTURE AND COMMUNICATION SECTOR: Asst.Dir. Gen: Makaminan Makagiansar. Deputy Asst.Dir.Gen. (Communication): Gunnar Naesselund.

Division of Free Flow of Information and Communicatiion Policies: Dir: Julian Behrstock.

Division of Development of Communication Systems: Dir: Pierre Navaux.

UNITED NATIONS

Addr: United Nations, New York, NY 10017, USA

L.P: Asst.Secr.Gen. for Pubic Inf: G. Akatani; Dir, Radio and Visual Sces Div: M. Martin; Dep.Dir.Radio and Visual Sces Div: M. Hayward; Chief Visual Sce: G. Lauzun. Chief Special Projects: A. Cherif; Chief Photo and Exhibits Sect: V. Bell; Chief Radio Sce: G. Movshon; Dep. Chief Radio Sces: T. Endo; Chief Central Sces Sect: M. Bolotsky.

Regional Units: Chief African Section: S. Rowe. Chief Asian Section: H. Hsu. Chief Central Progr. Section: L. Ogle. Chief European Section: G. Drambiants. Chief Latin American/Iberian Section: R. Aicardi. Chief Middle-East Section: T. Jabri. Chief North American Section: B. Pfeiffer.

For the broadcasting schedule of United Nations Radio, please refer to United Nations (USA and Switzerland).

COMMONWEALTH BROADCASTING ASSOCIATION

Members: All India Radio, Door Darshan India (Television), Antigua Broadcasting Service, Australian Broadcasting Commission, British Broadcasting Corporation, Broadcasting Corporation of the Bahamas, Broadcasting Council of New Zealand, Canadian Broadcasting Corporation, Caribbean Broadcasting Corporation (Barbados), Cyprus Broadcasting Corporation, Dominica Broadcasting Corporation, Fiji Broadcasting Commission, Ghana Broadcasting Corporation, Guyana Broadcasting Service, Jamaica Broadcasting Corporation, Lesotho National Broadcasting Service, Malawi Broadcasting Corporation, Malta Broadcasting Authority, Mauritius Broadcasting Corporation, Nigerian Broadcasting Corporation, Papua New Guinea National Broadcasting Commission, Radio Bangladesh, Bangladesh Television, Radio Belize, Radio Botswana, Radio Gambia, Radio Grenada, Radio Television Hong Kong, Radio Television Malaysia, Radio St. Vincent, Radio Seychelles, Radio and Television Singapore, Radio Tanzania(Dar es Salaam), Radio and Television ZIZ(St. Kitts-Nevis), St. Lucia Broadcasting Corporation, Sierra Leone Broadcasting Service, Solomon Islands Broadcasting Service, Sri Lanka(Ceylon) Broadcasting Corporation, Swaziland Broadcasting Service, Tonga Broadcasting Commission, Trinidad and Tobago National Broadcasting Service(Radio), Trinidad and Tobago Television, Uganda Broadcasting Corporation, Voice of Kenya, Zambia Broadcasting Services.

Established in 1945, the Association (then Conference) is a standing association of the national public service broadcasting organisations which are responsible for the planning and presentation of the broadcast programmes of independent Commonwealth countries. General Conferences of the Association are held every two years and, since its Foundation, ten such Conferences have been held – two in London(1945 and 1952); and, subsequently, Australia(1956); India(1960); Canada(1963); Nigeria(1965); New Zealand(1968); Jamaica(1970); Kenya(1972); and Malta(1974). The Eleventh General Conference was held in Singapore from 28 September–7 October 1976, and the Twelfth in Mauritius in 1978. In between General Conferences, regional meetings are held in the main regions of the Association – e.g. the Caribbean; East, Central and Southern Africa; West Africa, etc. – as part of the Association's policy of encouraging more effective cooperation among members in its main regions.

At the Tenth Conference in Malta in 1974, the Association adopted for the first time a Charter, which sets out its aims and principles.

The Secretariat publishes a quarterly magazine COMBROAD, which is the journal of the Association and which has a wide international circulation.

Secretariat Address: Broadcasting House, London W1A 1AA. **Te:** 01-580 4468, ext 5022. **Cables:** Combroad London. **Telex:** 265781.

Secretary Gen: Alva Clarke.

Religious Organisations *(from page 55)*

ASIA AND PACIFIC

Christian Broadcasting Association, 420 Lyons Rd, Five Dock, Sydney, NSW, Australia 2046. Man.Dir: Rev. V. Turner. Radio prgr. production on behalf of churches. (600 prgrs per week on 100 commercial sts), operates ethnic AM station and FM-stereo station in Sydney.

Pacific Broadc. Ass, CPO Box 1000, Tokyo 100-91, Japan. Chmn. of Board of Dirs: Akira Hatori. Dir: Junji Hatori. PBA produces Japanese radio and TV programs which are aired on commercial Japanese sts in Japan and from missionary shortwave sts around the Pacific basin.

George Jacobs, Chief of the Voice of America's Frequency Division, has become the first engineering recipient of the US Information Agency's Superior Honor Award.

The Award, the Agency's second highest, was presented to Jacobs in recognition of his outstanding achievement in protecting interests of vital concern to the US Information Agency at a recent telecommunication conference of the International Telecommunication Union, Geneva. The complexity of the Conference tested his abilities as a negotiator as well as an engineer.

Jacobs has played an important role in drafting national and international telecommunications policy and has represented the Agency at more than a dozen major international telecommunications conferences. He joined the Voice of America in 1949 and has been Chief of the Frequency Division since 1953. He helped pioneer the development of VOA's world-wide overseas broadcasting systems.

A graduate of Pratt Institute, New York City, Jacobs also holds an MSEE from the University of Maryland. A fellow of the IEEE, he also contributes regularly to scientific and professional journals. Jacobs is a Registered Professional Engineer in the District of Columbia, and is holder of the Air Medal for service during World War II as an 8th Air Force navigator.

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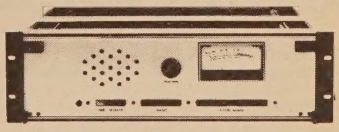

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RELIGIOUS BROADCASTING ORGANISATIONS

WORLD ASSOCIATION FOR CHRISTIAN COMMUNICATION (WACC)

A working fellowship of corporate and personal members from 61 countries who are concerned with the employment of modern means of communication for the proclamation of the Christian Gospel in relevance to life. Members include church-related and secular communications organisations. Activities centre in six regional associations: Africa, Asia-Pacific, Europe, Europe, Latin America-Caribbean, Middle East and North America.

Programme Emphasis: Strategy, evaluation and support of projects in print and electronic media development; communication education; research; exchange of information; cooperation with other international and regional organisations in studies, conferences and events.

Publications: ACTION newsletter (10 times a year); WACC Journal (quarterly); occasional conference and research reports.

International Office: 122 King's Road, London SW3, England. **Te:** (01) 839-5776. **Cable:** Wachrib, London SW1.

Officers: Pres: Mr. Christopher O. Kolade, Dir.Gen, Nigerian Broadcasting Corporation. Secr: The Rev. Dr. Frank G. Brisbin. Secr. for Communications: United Church of Canada. Treasurer: Drs. Jan van Dis, Deputy Governor, Province of Noord Holland.

WORLD COUNCIL OF CHURCHES

The Rev. C. Michael de Vries, Secretary for Radio and TV, Department of Communications.

ADDR: P.O. Box 66, 150 Route de Ferney, 1211 Geneva 20, Switzerland. **Te:** (022) 333400. **Telex:** 23423OIKCH. **Cable:** Oikoumene, Geneva.

LUTHERAN WORLD FEDERATION OFFICE OF COMMUNICATION (Formerly Broadcasting Service)

An international Christian Mass Communication agency. Active in religious and educational radio and television in many parts of the world. Owner and operator of station ETLF – Radio Voice of the Gospel, Addis Ababa, Ethiopia. Affiliated in broadcasting with World Association for Christian Communication and The Lutheran Hour.

Head Office: 150 rte de Ferney, 1211 Geneva 20 Switzerland. Dir: Rev. Marc Chambron. Secr. for Consultative Sces: Odd Kvaal Pedersen. Radio Production: Christophe Wagner.

Radio Voice of the Gospel: P.O. Box 654, Addis Ababa, Ethiopia. Dir: Rev. Manfred Lundgren. Associate Dir: Flemming Kramp. Program Dir: Rev. Knud Jørgensen. Tech.Dir: Kebede Goena. Dir. Audience Research and Planning: Menkir Esayas. Dir.Admin: Yohannes Irenna.

Japan Office: 717, Yurakucho Bldg, Room 1-10-1 Yurakucho, Chiyoda-ku, Tokyo. Dir: Rev. George L. Olson.

Office of Chinese Speaking Areas: 33 Granville Road, Kowloon, Hong Kong. Dir: Rev. William B. Dingler.

ROMAN CATHOLIC

Pontifical Commission for Social Communications.

ADDR: Palazzo S. Carlo, Vatican City State. Pres: Bishop Andrew M. Deskur. Secr: The Very Rev. Romeo Panciroli. Under Secr: The Rev. Karlheinz Hoffmann. Tech. Consultant: The Rev. Antonio Stefanizzi.

UNDA: Association catholique internationale pour la Radiodiffusion et la Television.

(International Organisation for Broadcasting and Television).

UNDA General Secretariat, Rue de L'Orme 12, B-1040 Bruxelles, Belgium. **Te:** 7346361. **Cable:** Unda Brussels. **Telex:** 21275 CIPNF B UNDA.

Secretary General: Rev. Jean G. Desautels, S.J.

Aims and objectives

a) To provide the meeting point and a coordination centre for the apostolic and professional activities of Catholics in Radio and Television and other allied audio-visual means of communication for the purpose of the evangelisation and the development of men.

b) To promote collaboration between its members, both organisations and individual persons, at the national, continental and world levels, by means of study days, conferences, publications, exchange of information, documentation and programmes.

c) To represent the interests of its members internationally; to be in contact with other organisations, official or voluntary, pursuing the same aims or who are concerned with the mass media.

d) To engage, within its own field of activity, in bringing help to the Third World by means of training personnel, the organisations and coordination of material aid.

e) To promote research in all relevant matters pertaining to radio and television.

f) To collaborate with non-Catholic organisations pursuing similar objectives.

Members: National Associations

Africa: Botswana, Burundi, Cameroun, Central African Republic, Comores, Congo, Dahomey, Gabon, Gambia, Ghana, Ivory Coast, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritius, Niger, Nigeria, Rhodesia, Rwanda, Senegal, Seychelles, Sierra Leone, South Africa, Tanzania, Tchad, Togo, Uganda, Upper Volta, Zaire, Zambia. **Asia:** Hong Kong, India, Indonesia, Japan, Republic of Korea, Macao, Malaysia, Philippines, Singapore, Sri Lanka, Taiwan, Thailand. **Europe:** Austria, Belgium, Denmark, England & Wales, Finland, France, Germany (FR), Hungary, Ireland, Italy, Luxembourg, Malta, Monaco, Netherlands, Norway, Poland, Portugal, Scotland, Spain, Sweden, Switzerland, Yugoslavia. **Latin America:** Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Honduras, Mexico, Nicaragua, Peru, Puerto Rico, Uruguay, Venezuela. **North America:** Canada, United States of America. **Oceania:** Australia, Solomon Islands, Caroline & Marshall Islands, Fiji/Gilbert & Ellice Islands, Guam/Northern Marianas, New Caledonia/New Hebrides, New Zealand, Papua New Guinea, Samoa/Tonga/Wallis and Futuna/Cook Islands, Tahiti/Marquesas.

International Organisations: 1) Catholic Communications Centre, Booterstown Ave, Black Rock, Co. Dublin, Ireland. 2) Catholic Radio and Television Centre, Oakleigh Rd, Hatch End, Middlesex HA5 4HB, England. 3) Daughters of St. Paul, Via Laurentina 289, 00142 Rome, Italy. 4) Jescom International, Borgo St. Spirito 5, C.P. 9048, 00100 Rome, Italy. 5) Kuangchi Program Service, 8 Lane 451, Tun Hua South Rd, Taipei, Taiwan. 6) Oblates of Mary Immaculate, Via Aurelia 290, 00165 Rome, Italy. 7) Order of Preachers, 222 rue du Faubourg St. Honore, 75008 Paris, France. 8) Radio Veritas, P.O.Box AC-373, Quezon City, Philippines. 9) Society of the Divine Word, Via dei Verbiti 1, Rome, Italy, 10) Vatican Radio, Radio Vaticana, Palazzina Leone XIII, Citta del Vaticano.

Publications: Monthly newsletters in English and French, various newsletters published at continental and national levels, UNDA Directory (revised periodically).

RELIGIOUS SOCIETIES PROTESTANT

EUROPE

Radio Committee of the Evangelical Missionary Alliance

ADDR: 19 Draycott Place, London, SW3 2SJ, England.

Chmn: H. Totterdell.

EVANGELISCHE RADIOMISSION "CHRISTUS LEBT"

ADDR: D-48 Bielefeld 1, P.O.Box 2640, Fed.Rep. of Germany. **Te:** (0521) 44861 – Exec: Rev. H.L. Kuerschner. A

WHOLE TRUTH APOSTOLIC FAITH LEADER SPEAKS TO ALL NATIONS

HIS BLESSEDNESS BISHOP S. McDOWELL SHELTON
APOSTLE AND PASTOR OF
THE CHURCHES OF THE LORD JESUS CHRIST
OF THE APOSTOLIC FAITH

HEADQUARTERS ON APOSTOLIC SQUARE
22nd & BAINBRIDGE STREETS
PHILADELPHIA, PENNSYLVANIA U.S.A.

TUNE IN AROUND THE WORLD AND WRITE TO:
BISHOP S. McDOWELL SHELTON, APOSTOLIC SQUARE,
PHILADELPHIA, PENNSYLVANIA 19146 U.S.A.

AMMAN, JORDAN: RADIO AMMAN
7155kHz – 41.92m – 100kW
Saturday 18:00-18:30 GMT

SRI LANKA: RADIO SRI LANKA
15120kHz – 19.84m – 100kW
11725kHz – 25.00m – 35kW
6075kHz – 49.38m – 10kW
Friday 03:30-04:30 GMT

MALDIVES: RADIO MALDIVES
4740kHz – 63.29m – 30kW
Saturday 17:00-18:00 GMT

PORTUGAL: PORTO MIRAMAR
782kHz – 383m – 10kW
Sunday 05:25-05:55 GMT

LESOTHO: NATIONAL BROADCASTING SERVICE
899kHz – 333m – 10kW
4800kHz – 60m – 10kW
87.77mHz – 10kW
Sunday and Wednesday 20:30-21:30 GMT

LUXEMBOURG:
RADIO LUXEMBOURG
6090kHz – 49.26m – 500kW
Sunday 22:00-22:30 GMT
Monday 21:00-22:00 GMT
1439kHz – 208m – 1,200kW
Sunday 04:15-04.45 GMT

working group of Evang. Churches in West Germany, concerned with programs in 4 languages (**Estonian, Latvian, Polish, Czech** via Trans World Radio, Monte Carlo).

EVANGELIUMS-RUNDFUNK
(German-speaking Branch of TWR)
ADDR: Box 1444, D-6330 Wetzlar, Germany.
L.P: Chmn: J. Bernath. Dir.Prgr: Rev. H. Marquardt. Dir.Adm: Wilfr. Mann.
D.Prgrs: German over Trans World Radio, Monte Carlo, to Europe and service for Immigrant Workers.

RADIO MESSIAS
ADDR: P.O. Box 1204, CH-6002 Luzern, Switzerland.
D.Prgrs: Over R. Trans Europe, Portugal, on 9670kHz: Sat 1545 **Spanish,** Sat 1600 **Russian,** Sat 1615 **German.** Over R. Luxembourg on 6090khz: Sat 2130 **Portuguese,** Sun 2115 **Spanish,** Sun 2250 **Portuguese.**

IBRA RADIO AB (Non-Comm, Non-Gov, Christian)
ADDR: Box 396, S-101 25 Stockholm, Sweden. Headq: Surbrunnsgatan 42, Stockholm. **Cable:** Ibradadio.

D.Prgrs over Radio Trans Europe (Sines, Portugal) on 9670kHz 250kW: **Albanian** 1915-1930(Sat) – **Arabic** 1900-1915(Sun/Tues/Wed) – **Armenian** 1745-1800(Fri) – **Bulgarian** 0530-0600(Tues/Thurs), 1900-1915(Sat), 1915-1930(Mon/Tues/Wed/Thurs) – **Czech** 1700-1730(Fri), 2015-2030(Sun)– **English** 2030-2100(Thurs/Sat), 2045-2100(Sun/Fri) – **Estonian** 1930-1945(Tues), 2000-2015(Sat) – **Finnish** 1945-2000(Thurs) – **German** 1830-1845(Mon), 1930-1945(Thurs), 2000-2015(Mon), 2000-2030(Tues/Wed/Thurs), 2015-2030(Fri/Sat), 2030-2045(Sun) – **Greenlandic** 2015-2030(Mon) – **Greek** 1900-1915(Mon/Fri), 1915-1930(Sun) – **Hungarian** 0530-0600(Mon), 1830-1900(Sat), 1845-1900(Tues), 1945-2000(Wed) – **Latvian** 1945-2000(Tues/Sat) – **Lithuanian** 2000-2015(Fri) – **Norwegian** 2030-2100(Mon) – **Polish** 2000-2015(Sun), 2030-2100(Wed), 2030-2045(Fri) – **Romanian** 1830-1900(Fri), 1845-1900(Mon), 1930-1945(Wed/Sat), 1930-2000(Sun/Fri) – **Russian** 1700-1830(Sun/Wed/Thurs/Sat), 1730-1745(Fri), 1730-1830(Mon/Tues), 1800-1830(Fri) – **Swedish** 2030-2100(Tues) – **Ukrainian** 0530-0600(Wed/Fri/Sat), 1700-1730(Mon/Tues), 1830-1845(Tues), 1830-1900(Sun/Wed), 1830-1915(Thurs), 1930-2000(Mon) – **Yugoslavian** 1915-1930(Fri).

D.Prgrs over Radio Mediterran (Malta) on 6170kHz 250kW: **Bulgarian** 2100-2115(Mon) – **English** 2030-2045(Sat), 2030-2100(Mon), 2030-2115(Sun), 2045-2100(Thurs/Fri) – **Esperanto** 2030-2045(Tues) – **German** 2030-2045(Thurs/Fri), 2100-2115(Thurs/Fri) – **Greek** 2015-2030(Sun/Wed/Sat) – **Hungarian** 2100-2115(Wed) – **Spanish** 2015-2030(Thurs/Fri) – **Turkish** 2015-2030(Mon/Tues) – **Ukrainian** 2030-2100(Wed).

IBRA prgrs are also broadcast from Japan (5 sts), Philippines (1), Thailand (19), Portugal (2), Honduras (2), Argentina (8), Bolivia (1), Chile (6), Paraguay (1), Peru (1), Uruguay (1), Seychelles (1), Mexico (2).

NOREA RADIO (Nordic Radio Evangelistic Assn)
ADDR: Grensen 19, Oslo 1, Norway. **Te:** 332525. **Cable:** Norskluth.
L.P: Dir.Adm: Å. Nevland. Dir.Prgr: K. Melhus. Dir.Seamen's Prgr: J.F. Soli. Dir.Music: R. Saunes. Tec.Dept: K. Sinkerud. Dir.local dept: S. Spikkeland.
D.Prgrs: Norwegian (Daily): see TWR, Monte Carlo; TWR, Bonaire and HCJB, Ecuador. **Danish** (Mon-Thurs): see TWR, Monte Carlo. **Swedish** (Tues): see TWR, Monte Carlo.
Daily prgrs in Russian and weekly and semi weekly prgrs in Hungarian, Albanian, Czech, Romanian, Armenian, Ukrainian, Macedonian, Polish and Serbo-Croat are produced and sponsored in cooperation with TWR, Monte Carlo. In Taiwanese and Mandarin from 4 different sts on Taiwan. In Japanese in cooperation with "The Lutheran Hour" in Japan. In Chinese over st. HLDA, Cheju Island 1515-1530 and a weekly prgr. in Chinese over st. HLKY, Inchon, Korea 1140-1155(Sun), 0340-0355(Mon) – **V.** by QSL-card and letter – **FI:** By gifts from listeners and friends.

ADVENTIST WORLD RADIO
ADDR: AWR, C.P. 2590, Lisbon 2, Portugal.
L.P: Mgr: Ron Myers. Consultant: Allen R. Steele.
D.Prgrs: Christian programmes worldwide on MW, FM, Shortwave, including major relay stations. Contract block programming for Europe on shortwave from Sines, Portugal, on 9670kHz (250kW) and from Malta on 9635kHz (250kW), for Asia from Sri Lanka and Macao. Identified as "The Voice of Hope".

From Sines, Portugal on 9670kHz
Arabic: Sun 0700, Wed 2100 – **Croatian:** Sun 0530 – **Dutch:** Fri 2100 – **English:** Sun 0900 – **French:** Sun 0830 – **German:** Sun 0730, Fri 2115 – **Hungarian:** Sat 2100 – **Romanian:** Sun 0630 – **Russian:** Sun 0500, Sat 0600 – **Serbian:** Sun 0600 – **Slovenian:** Mon 2100 – **Swedish:** Sun 0815, 2100 – **Ukrainian:** Sat 0630.

From Malta on 9635kHz
English: Sun 0700 – **French:** Sun 0730 – **German:** Sun 0715 – **Greek:** Sun 0615(Sat 0700 on 9670kHz) – **Italian:** Sun 0645 – **Turkish:** Sun 0600.

From Sri Lanka
English: Sun 0330 on 9720/15425kHz, 1345 and 1430 on 7190/9720/15425kHz, Fri 1300 on 7190/9720/15425kHz, Sat 1330 on 920/7190/9720/15425kHz – **Hindi:** Wed 1615 on 6075/7190kHz – **Kanada:** Sun 0845 on 7190/11800kHz – **Malayalam:** Sun 1030 on 7190/11800kHz – **Marathi:** Thurs 1615 on 6075/7190kHz – **Tamil:** Sat 1300 on 6075/7190kHz – **Telugu:** Sun 0930 on 7190/11800kHz – **Urdu:** Fri 1615 on 6075/7190kHz.

From Macao on 735kHz
Chinese: Sun-Thurs 0030.

DX-Prgr. in English: Sun 0930 (Sines); in French: Sun 0730 (Malta) – **V.** by QSL-card.

AFRICA
Sudan Interior Mission operates Radio ELWA, Box 192, Monrovia, Liberia with studios: P.M.B. 504, Igbaja via Ilorin, Nigeria; Box 465, Jos, Nigeria and B.P. 8886, Abidjan, Ivory Coast.

AMERICA
Back to the Bible Broadcast, Box 82808, Lincoln, Nebraska 68501, USA. Founded 1939. Dir: Theodore H. Epp. Exec.Dir: Melvin A. Jones. Produces daily half-hour prgrs of music (choir, quartet, solos, etc.) and evangelical preaching: Mondays: Missions (G. Christian Wess); Tuesdays-Thursdays: Bible Teaching (Theodore H. Epp); Fridays: Evangelism (Ord L. Morrow); Saturdays: Youth (Melvin A. Jones). Also Sundays on some stations. Heard on more than 560 mediumwave, FM-VHF and shortwave outlets: USA (380), Canada (90), Philippines (30), Pacific (10), West Indies (15), Australia (20), Central America, South America, Europe, Africa. Covers 95% of globe daily. Also produces daily 5-min talk prgrs, "Pause for Good News" by Dave Breese, J. Allan Petersen, Ord. L. Morrow, heard on 280 outlets: 150 mediumwave and FM-VHF stations (USA 120, Canada 30), 15 overseas stations, 115 college and university campus stations.
Also produces prgrs in **Spanish** (La Biblia Dice), **Italian** (Voce della Bibbia and La Storio Piu Bella), **French** (La Voix de l'Evangile), **Sinhala** (Jeevithalokaya), **Tagalog** (Tanglaw sa Landas Ng Buhay), **Tamil** (Sathiya Vasanam), **Hindi** (Masihi Vandana and Ghar Sansar) and **Cebuano** (Simbahan Sa Kahanginan).
Operates studios in Ecuador, Italy, France, Sri Lanka and India. Helps support prgrs in 22 other languages. English-language offices in Lincoln, Nebr, USA (home office); Winnipeg, Man, Canada; Kingston, Jamaica; Reading, England; Roodepoort, Tvl, Rep. of So. Africa; New Delhi, India; Colombo, Sri Lanka; Manila, Philippines and Stanmore, Australia. For free logs of stations carrying English 30-min-prgrs (specify North America, International, or both), write to Radio Department at Lincoln address.

Trans World Radio: International Headquarters, 560 Main St (P.O. Box 98) Chatham, NJ 07928, USA. Founder and president: Paul E. Freed, PhD.

TWR broadcasts the gospel from five stations located in Monte Carlo, Monaco; Bonaire, Netherlands Antilles; Manzini, Swaziland; Cyprus and from Guam in more than 40 languages. TWR production studios are located in Wetzlar, Germany; Strasbourg, France; Barcelona, Spain; Baarn, Holland; São Paulo, Brazil; Buenos Aires, Argentina; Chatham, NJ USA; London, England. Associate studios are located in Oslo, Norway; Eastbourne, England; Helsinki, Finland.

National Religious Broadcasters, Inc, an association of religious national and international broadcasters on radio and TV since 1944.

Headquarters: Dr. B. L. Armstrong, Exec.Sec, Box 2254R, Morristown, NJ 07960; Pres: Dr. Abe C. Van Der Puy, Box 3000 Opa Locka, Miami, Florida 33055, USA.

NRB comprises over 700 religious broadc. orgs consisting of stations and program producers. Sponsors conventions on national and regional areas Eastern, Southeastern, Midwest, Southwestern and Western Chapters.
Publications: "Religious Broadcasting", bi-monthly, and the "NRB Hotline", published monthly.

International Christian Broadcasters, an international service org. for those who use radio and television to proclaim the Gospel, and to encourage the use of these mass media throughout the world for the furtherance of the Gospel, and to aid and strengthen the Christian Church worldwide through mass communications. Sponsors of national and international conferences.
Membership may be granted to regional and national radio television orgs or committees; Christian broadc. sts recording studios and prgr. producers, and auxiliary orgs; persons interested in radio and television as mass media to proclaim the Gospel.
ADDR: P.O. Box 6516, Clearwater, Florida 33518, USA.
Lutheran Television, television department of the International Lutheran Laymen's League for television programs for national and international distribution on a public service or a commercial basis. Presently producing and distributing "This is the Life" and "Family Animated Half Hour TV Specials", Christmas Is, Easter Is, The City That Forgot About Christmas.
L.P: Dept.Mgr: Dr. Martin J. Neeb Jr. Prgr.Dir: Rev. Ardon D. Albrecht. Distribution Dir: J. Michael Vincent, 2185 Hampton Ave, St. Louis, Mo 63139, USA.

Difusiones Inter Americanas (DIA), produces, processes, promotes, duplicates and distributes Evangelical radio and TV programs in Spanish. The DIA agency and monitoring service maintain contact with over 600 Latin American stations for Christian broadcasters.
Through recorded tapes, cassettes and discs, films and filmstrips, training classes, technical help, and organising continent-wide communications seminars and congresses, DIA facilitates the evangelization of Spanish-speaking people.
ADDR: Apt. 2470, San José, Costa Rica. **Te:** 21.2952.
Cable: Difinter.

CAM International (formerly Central American Mission) (operates TGNA, Guatemala City).
ADDR: 8625 La Prada Dr, Dallas, Texas 75228, USA. R. TGNA: Box 601, Guatemala City, Guatemala. Mgr: Oscar López M.

The Evangelical Alliance Mission, P.O. Box 969, Wheaton, Ill. 60187, USA. Gen.Dir: R. Winchell.
Operates HLKX, Seoul, Rep. of Korea, PJA-6, Aruba, Netherlands Antilles, OAZ4K – – OAZ4L and OCX4H, Lima, Peru. Studios producing taped radio programs: Rawalpindi, Pakistan; Colombo, Sri Lanka. Taichung, Taiwan; Tokyo, Japan; Salisbury, Rhodesia; San Cristobal, Venezuela.

West Indies Mission, P.O. Box 343038, Coral Gables, Fla. 33134, USA. Gen.Dir: Rev. J. Allen Thompson. St.Mgr: Rev. Edwin Walker; Chief Eng: Barry Timmons of Radio Haiti. Field Publ: "Harvest Today". Is working in the West Indies, South America and Latin Europe.

Communication Commission, NCCUSA, New York, USA. National Council of Churches of Christ in the USA, 475 Riverside Drive, New York 10027. Asst.Gen.Secr. for Communication: W.F. Fore.

Intermedia. A Mass Communications Ministry of the Division of Overseas Ministries of the National Council of Churches of Christ in the USA, 475 Riverside Drive, New York, NY 10027. Dir: V.J. Rossman.

Far East Broadcasting Co. Inc, P.O. Box 1, Whittier, Calif. 90608. Pres: Robert H. Bowman. Private Comp. with offices in 12 countries. **Publ:** "FEBC Broadcaster" monthly. Operates sts in Manila, Guimaras, Cebu, Davao, Jolo, Legaspi, Marbel, Samar, Iba (Philippines); Naha (Okinawa), Japan; Cheju, Korea; San Francisco (USA) and Seychelles (Far East Broadc. Ass. with hqs at Woking, Surrey, England).

The Lutheran Hour, Bringing Christ to the Nations, produced by the Mass Media Department of the International Lutheran Laymen's League, 2185 Hampton Ave, St. Louis, Mo. 63139, USA. Programming includes 73 formats weekly in 46 languages from 18 production centers.
L.P: Dept.Mgr: Tommy P. Thompson. Dir.Intern. Operations: Dr. William Kniffel. Dir. Programming: Dr. Elmer J. Knoernschild.

OMS International, Inc, P.O. Box A, Greenwood, Indiana 46142, USA. Pres: Dr. Wesley Duewel. Supt: Haiti field incl. allied missionary activities: David Graffenberger, Box 1, Cap Haitien, Haiti. Operates St. 4VEH, Cap Haitien.

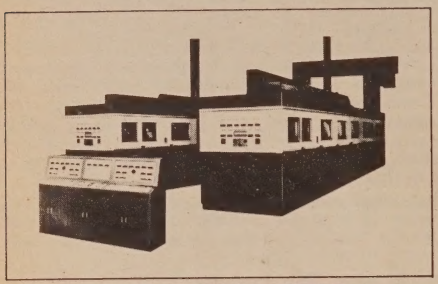
World Radio Missionary Fellowship, HCJB, La Voz de los Andes, Quito, Ecuador; HOXO, Panama. Pres: Abe Van Der Puy. No. American Headquarters: P.O. Box 3000 Opa Locka, Fl. 33055, USA.

World Radio Bible Broadcasts, P.O. Box 545, West Monroe, La. 71291, USA. A non-denominational Christian broadcast, heard throughout the world on SW, MW, FM and TV in English, French, Spanish, German, Chinese, Czech, Portuguese. Also: Quechuan, Ilocano, Korean, Twi and Tongan.

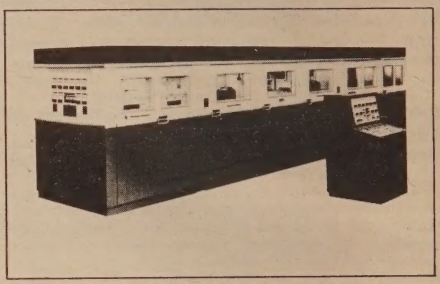
Bolivian Baptist Union, Cajon 1408, La Paz, Bolivia, South America. Dir: Rev. Augusto Clavijo. Operates R. La Cruz del Sur, La Paz, Bolivia.

(continued on page 50)

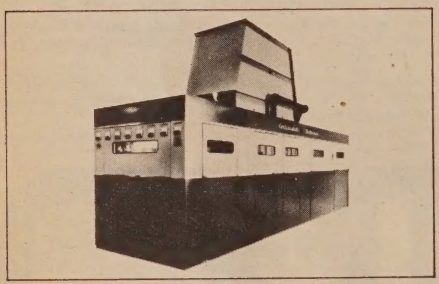
Continental Electronics Builds the World's Most Powerful Transmitters



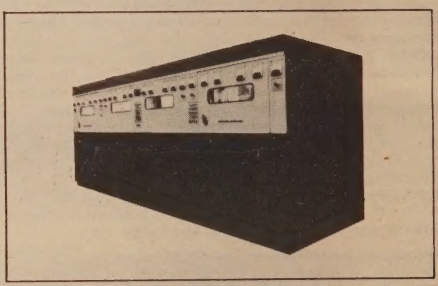
1,000,000 WATT MW TRANSMITTER



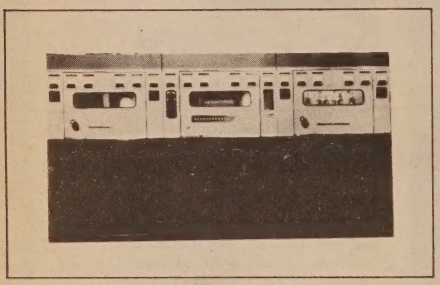
500,000 WATT MW TRANSMITTER



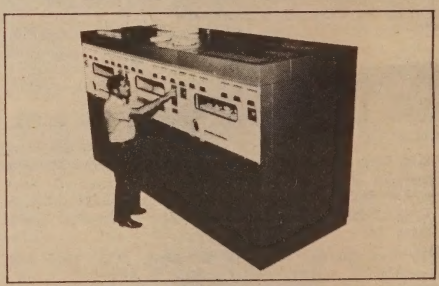
250,000 WATT MW TRANSMITTER



150,000 WATT MW TRANSMITTER



100,000 WATT MW TRANSMITTER

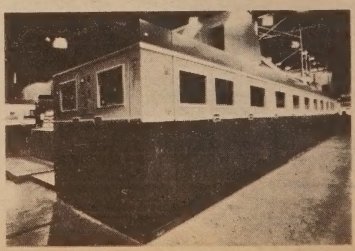


50,000 WATT MW TRANSMITTER

2,000,000 WATTS MW

Continental Electronics Mfg. Co. is currently installing the world's most powerful broadcast transmitter for Yugoslavia's Radio Belgrade; 2,000,000 watts carrier power!

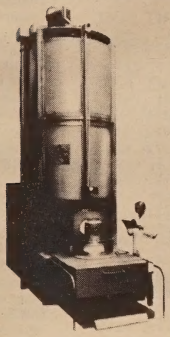
Continental has built more than 300 broadcast transmitters, with a combined carrier power that exceeds 25,000,000 watts. Continental has installed eight 1,000,000 watt broadcast transmitters, which is more than any other manufacturer in the world has installed, and has been a pioneer and leader in high-power and super-power transmitters since 1946; a record of performance unequaled by any other organization.



2,000,000 WATT MW TRANSMITTER DURING FACTORY TEST

2,000,000 WATTS SW

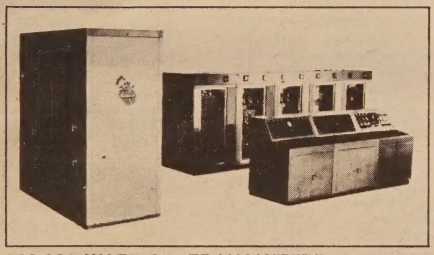
The World's Most Powerful SW Transmitter



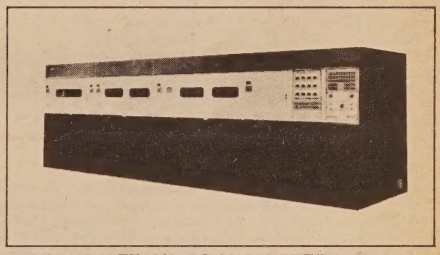
Continental's single tube amplifier, built for EIMAC Division of Varian, develops 1,300,000 watts of carrier power over the range of 15 to 30 MHz. A single amplifier stage, using two EIMAC X-2159 tubes, is capable of developing more than 2,500,000 watts of 100% modulated carrier.

Continental's world-wide high-power experience includes transmitters, antenna systems, dummy loads, phasing and coupling equipment, and combiners for a wide range of transmitter power levels.

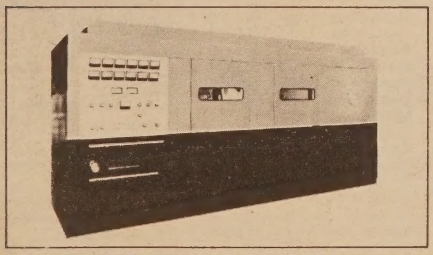
The average power output of all transmitters built by Continental for operation over the frequency range from VLF through UHF exceeds 60,000,000 watts! When you need high-power or super-power equipment, talk to the specialists!



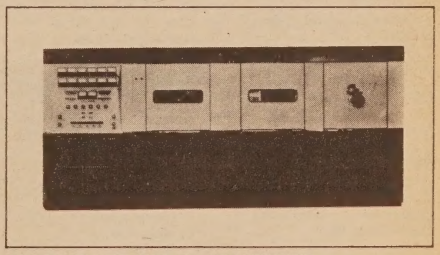
500,000 WATT SW TRANSMITTER



250,000 WATT SW TRANSMITTER



100,000 WATT SW TRANSMITTER



50,000 WATT SW TRANSMITTER

Contact International Broadcast Department:

Continental Electronics

CONTINENTAL ELECTRONICS MFG. CO. BOX 17040 DALLAS, TEXAS 75217 USA
TELEPHONE (214) 381-7161 CABLE: CONTRONICS TELEX: 73-398

WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of GMT. Differences marked – indicate the number of hours behind GMT. Variations from standard time during part of the year in some countries referred to as Summer Time) are decided annually and may vary from year to year. N=Normal Time; S=Summer Time.

	N	S
Afars & Issas	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	- 8	- 8
Albania	+1	+2
Algeria	GMT	GMT
Andorra	+1	+1
Angola	+1	+1
Anguilla	- 4	- 4
Antigua	- 4	- 4
Argentina	- 3	- 3
Ascension Isl.	GMT	GMT
Australia		
a) Victoria		
New South wales	+10	+11
Queensland	+10	+10
Tasmania	+10	+11
	(Oct–March)	
b) N.Territory	+9½	+9½
c) S.Australia	+9½	+10½
	(Oct–March)	
d) W.Australia	+8	+9
	(Oct–March)	
Austria	+1	+1
Azores	- 1	- 1
Bahamas	- 5	- 4
Bahrein	+3	+3
Bangladesh	+6	+6
Barbados(W.I.)	- 4	- 4
Belgium	+1	+1
Belize	- 6	- 6
Bermuda	- 4	- 4
Bhutan	+5½	+5½
Bolivia	- 4	- 4
Botswana	+2	+2
Brazil		
a) Eastern & Coastal	- 3	- 3
b) Manaos	- 4	- 4
c) Acre	- 5	- 5
Brunei	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Burundi	+2	+2
Cameroon	+1	+1
Canada		
a) Newfoundland	-3½	- 2½
b) Atlantic (Labrador, Nova Socotia)	- 4	- 3
c) Eastern (Ontario) Quebec	- 5	- 4
d) Central (Manitoba)	- 6	- 5
e) Mountain (Alberta) NWT (Mountain)	- 7	- 6
f) Pacific (Br. Columbia) NWT (West)	- 8	- 7
g) Yukon	- 9	- 8
Cambodia	+7	+7
Canary Isl.	GMT	GMT
Cape Verde Isl.	- 1	- 1
Central African Rep.	+1	+1
Chad	+1	+1
Chile	- 4	- 3
	(Oct–March)	
China		
People's Rep.	+8	+8
Lhasa	+6	+6
Urumchi	+6	+6
Christmas Isl.	+7	+7
Cocos (Keeling) Isl.	+6½	+6½

	N	S
Colombia	- 5	- 5
Comoro Isl.	+3	+3
Congo (Brazzaville)	+1	+1
Cook Isl.	-10½	-10½
Costa Rica	- 6	- 6
Cuba (W.I.)	- 5	- 4
	(March–Sept)	
Curacao	- 4	- 4
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Diego Garcia	+5	+5
Dominica	- 4	- 4
Dom.Rep.	- 4	- 4
Ecuador	- 5	- 5
Egypt	+2	+3
	(May–Sept)	
El Salvador	- 6	- 6
Ethiopia	+3	+3
Falkland Isl.	- 4	- 4
Faeroe Isl.	GMT	GMT
Fiji Isl.	+12	+12
Finland	+2	+2
France	+1	+2
Gabon	+1	+1
Gambia	GMT	GMT
Germany	+1	+1
Ghana	GMT	GMT
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Gr.Britain	GMT	+1
Greece	+2	+3
Greenland	- 2	- 2
Scoresby Sound		
Angmagssalik, W.Coast (exc.Thule)	- 3	- 3
Thule area	- 4	- 4
Grenada	- 4	- 4
Guadeloupe	- 4	- 4
Guam	+10	+10
Guatemala	- 6	- 6
Guyana (French)	- 3	- 3
Guinea	GMT	GMT
Guinea Equat.	+1	+1
Guinea Bissau	GMT	GMT
Guyana	- 3	- 3
Haiti (W.I.)	- 5	- 5
Hawaii	-10	-10
Holland	+1	+1
Honduras(Rep)	-6	- 6
Hong Kong	+8	+9
	(Apr–Oct)	
Hungary	+1	+1
Iceland	GMT	GMT
India	+5½	+5½
Indonesia		
a) Java, Sumatra	+7	+7
b) Borneo, Celebes,Bali	+8	+8
c) Moluccas, We.Irian	+9	+9
Iran(Persia)	+3½	+3½
Iraq	+3	+3
Ireland(Eire)	GMT	+1
Israel	+2	+3
Italy	+1	+2
	(May–Sept)	
Ivory Coast	GMT	GMT
Jamaica(W.I.)	- 5	- 4
Japan	+9	+9
Johnston Isl.	+10	+10
Jordan	+2	+3
Kenya	+3	+3

	N	S
Korea,Rep.	+9	+9
Korea,Dem. Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+3
	(June–Sept)	
Lesotho	+2	+2
Liberia	GMT	GMT
Libya	+2	+2
Lord Howe Is.	+11	+11
Luxembourg	+1	+1
Macau	+8	+9
Madagascar	+3	+3
Madeira	GMT	GMT
Malawi	+2	+2
Malaysia	+7½	+7½
Maldive Is.	+5	+5
Mali	GMT	GMT
Malta	+1	+2
Mauritania	GMT	GMT
Marianas	+10	+10
Marshall Isl.	+12	+12
Martinique	- 4	- 4
Mauritius	+4	+4
Mexico[2]	- 6	- 6
Midway Island	- 11	- 11
Monaco	+1	+1
Mongolia	+8	+8
Montserrat	- 4	- 4
Morocco	GMT	GMT
Mozambique	+2	+2
Nauru	+11½	+11½
Nepal	+5.40	+5.40
Neth.Antilles	-4	- 4
New Caledonia	+11	+11
New Guinea	+10	+10
New Hebrides	+12	+12
New Zealand	+12	+13
Nicaragua	- 6	- 6
Niger	+1	+1
Nigeria	+1	+1
Niue	-11	-11
Norfolk Isl.	+11½	+11½
Norway	+1	+1
Oman	+4	+4
Pakistan	+5	+5
Palau	+9	+9
Panama	- 5	- 5
Papua	+10	+10
Paraguay	- 4	- 3
Peru	- 5	- 5
Phillippines	+8	+8
Phoenix Isl.	- 11	- 11
Poland	+1	+1
Ponape	+11	+11
Portugal	+1	+1
Puerto Rico	- 4	- 4
Qatar	+3	+3
Reunion	+4	+4
Rhodesia	+2	+2
Romania	+2	+2
Rwanda	+2	+2
Sabah	+8	+8
St. Lucia	- 4	- 4
Samoa Isl.	- 11	- 11
St. Pierre	- 3	- 3
S.Tome	GMT	GMT
Sarawak	+8	+8
SaudiArabia	+3	+3
Senegal	GMT	GMT
Seychelles	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somalia	+3	+3
So.Africa	+2	+2
So.Yemen	+3	+3
Spain	+1	+2

	N	S
Sri Lanka	+5½	+5½
St.Kitts	- 4	- 4
St. Lucia	- 4	- 4
St. Vincent	- 4	- 4
Sudan	+2	+2
Surinam	- 3½	- 3½
Swaziland	+2	+2
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+3
Taiwan	+8	+9
Tahiti	-10	-10
Tanzania	+3	+3
Thailand	+7	+7
Timor	+8	+8
Togo	GMT	GMT
Tonga Isl.	+13	+13
Trinidad (B.W.I.)	- 4	- 4
Tristan da Cunha	GMT	GMT
Truk	+10	+10
Tunisia	+1	+1
Turk & Caicos Isl.	- 5	- 4
Turkey	+2	+3
Tuvalu	+12	+12
Uganda	+3	+3
United Arab Emirates	+4	+4
Upper Volta	GMT	GMT
Uruguay	- 3	- 3
U.S.S.R.		
Moscow, Lenningrad	+3	+3
Baku, Tbilisi	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Magadan	+11	+11
Petropavlosk	+12	+12
Anadyr	+13	+13
U.S.A.		
a) Eastern Zone	- 5	- 4
b) Central Zone	- 6	- 5
c) Mountain Zone	- 7	- 6
d) Pacific Zone	-8	- 7
Vatican	+1	+1
Venczuela	- 4	- 4
Vietnam	+7	+7
Virgin Isl.	- 4	- 4
Yap	+10	+10
Yemen	+3	+3
Yugoslavia	+1	+1
Zaire		
Kinshasa	+1	+1
Lubumbashi	+2	+2
Zambia	+2	+2

1) a) Ketchikan to Skagway - 8
b) Skagway to 141° W.long - 9
c) 141° W.long to 162° W.long - 10
d) 162° W.long to Westernmost point (incl. Aleutians) - 11

2) Generally - 6
Lower Cal. Pa.Coast - 7
No.part - 8

The Danish Shortwave Clubs International issues monthly

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DENMARK

Representatives in Great Britain – West Germany – USA

DSWCI is a truly international club with members in more than 40 countries!!!

THE EUROPEAN DX COUNCIL

is an international organisation to establish a closer cooperation between European DX clubs and to promote the DX hobby. The EDXC publishes a monthly Newsletter, which includes valuable news on DX-activities. It also contains opinions expressed in the discussions which are held on various subjects. Everyone is most welcome to participate in the discussions, and every DX-club or DX-organisation is invited to join the Council either as member club or as observer.

To work successfully in the fields indicated below we need YOUR help. DXers, clubs and stations are invited to take an active part in our committees working to

– watch the developments in international DX-contests
– do research on long-range Medium Wave Propagation
– assist smaller Overseas Broadcaster beaming to Europe in their frequency choice
– help the handicapped
– organise a public opinion poll on DXer's interests.

EDXC also offers various DX-Publications of interest for DXers, e.g. a Land List adopted by many DX-clubs all over the world, a Reporting Guide instructing how to write reception reports, ect.

For further information on the Council and its activities and a free sample copy of the Newsletter write to:
EDXC Publications Service, P. O. Box 710 271, D-6000 Frankfurt 71, Federal Republic of Germany

+11
+12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
165°
180
165°
150°
135°
120
105°
90
75
60°
45
30
MIDNIGHT WHEN NOON AT GREENWICH
ARCTIC OCEAN
GREENLAND
-3.00
75°
EAST SIBERIAN SEA
BEAUFORT SEA
BAFFIN BAY
INTERNATIONAL DATE LINE
U.S.S.R.
+13.00
Anadyr
ALASKA
Godthåb
Angmagssalik
ICELAND
BERING SEA
CANADA
HUDSON BAY
Br. Columbia
Edmonton
Manitoba
Quebec
Labrador
NORTH
ALEUTIAN ISL.
-11.00
Petropavlovsk
GULF OF ALASKA
Vancouver
NORTH AMERICA
Ontario
Newfoundland
-3.30
ATLANTIC
Toronto
Nova Scotia
AZORES
INTERNATIONAL DATE LINE
NORTH
San Francisco
UNITED STATES
New York
Pacific
Mountain
Central
Eastern
OCEAN
Los Angeles
BERMUDA
PACIFIC
TRUST TERRITORY OF THE PACIFIC ISLANDS
MIDWAY ISL.
-11.00
-10.00
HAWAII
Wake Islands
MEXICO
BAHAMAS
CUBA
HAITI
-4
Leeward Islands
CAPE VERDE ISL.
-2.00
MARSHALL
OCEAN
HONDURAS
JAMAICA
PUERTO RICO
+10
ISLANDS
GUATEMALA
ELSALVADOR
NICARAGUA
Netherlands Antilles
Windward Islands
CENTRAL
VENEZUELA
GUYANA -3.45
SURINAM -3.30
GUIANA (Fr.)
AMERICA
PACIFIC
GILBERT ISL.
EQUATOR
GALAPAGOS ISL.
ECUADOR
Manaus
BRAZIL
EQUATOR
0°
ELLICE ISLANDS
PERU
Acre
Recife
SOLOMON ISL.
+11.00
SAMOA ISL.
SOUTH
NEW HEBRIDES
FIJI ISLANDS
TUAMOTU
-10.30
AMERICA
15°
NEW CALEDONIA
+13.00
COOK ISL.
-10.00
BOLIVIA
TONGA ISLANDS
PARAGUAY
Rio De Janeiro
NORFOLK ISL.
+11.30
ARCHIPELAGO
TASMAN SEA
CHILE
URUGUAY
SOUTH
NEW ZEALAND
ARGENTINA
+12.45
CHATHAM ISL.
PACIFIC
INTERNATIONAL DATE LINE
FALKLAND ISLANDS
OCEAN
SCOTIA SEA
MIDNIGHT WHEN NOON AT GREENWICH
60
60°
+11
+12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
TIME ZONE CHART OF THE WORLD
165°
180
165°
150
135°
120
105
90
75°
60
45
30

-1 G.M.T +1 +2 +3 +4 +5 +6 +7 +8 +9 +10
GREENLAND
GREENLAND SEA
Spitsbergen
BARENTS SEA
KARA SEA
LAPTEV SEA
EAST SIBERIAN SEA
NORTH
NORWEGIAN SEA
ATLANTIC
OCEAN
ICELAND
NORWAY
SWEDEN
FINLAND
FAROE ISLANDS
UNION OF SOVIET SOCIALIST REPUBLICS
GREAT BRITAIN
DENMARK
HOLLAND
POLAND
GERMANY
IRELAND
EUROPE
FRANCE
HUNGARY
RUMANIA
BULGARIA
PORTUGAL
SPAIN
ITALY
TURKEY
GREECE
MALTA
MADEIRA
CANARY ISL.
MOROCCO
ALGERIA
LIBYA
EGYPT
SYRIA
ISRAEL
IRAQ
JORDAN
IRAN
AFGHANISTAN
PAKISTAN
NEPAL
INDIA
BURMA
THE PEOPLES REPUBLIC OF CHINA
MONGOLIA
KOREA
JAPAN
SEA OF OKHOTSK
PACIFIC
TRUST TERRITORY OF
MARIANA ISLANDS
GUAM
Yap Islands
Palau Isl
Truk Islands
CAROLINE ISLANDS
THE PACIFIC ISLANDS
RYUKYU ISL.
TAIWAN
HONG KONG
PHILIPPINES
VIETNAM
THAILAND
AFRICA
MAURITANIA
MALI
NIGER
CHAD
SUDAN
GAMBIA
GUINEA
SIERRA LEONE
LIBERIA
NIGERIA
VOLTA
IVORY COAST
GHANA
CAMEROON
CENTRAL AFRICA
ETHIOPIA
SOMALIA
UGANDA
KENYA
RWANDA
BURUNDI
TANZANIA
CONGO
EQUATOR
SAUDI ARABIA
YEMEN
DEMOC. REP. OF YEMEN
ARABIAN SEA
BAY OF BENGAL
SEYCHELLES
COMORES ISL.
MAURITIUS
REUNION
MALAGASY REP.
MOZAMBIQUE
ANGOLA
ZAMBIA
MALAWI
RHODESIA
S.W. AFRICA
BOTSWANA
SWAZILAND
LESOTHO
REP. OF SOUTH AFRICA
SOUTH ATLANTIC OCEAN
INDIAN OCEAN
MALAYA
FEDERATION OF MALAYSIA
SINGAPORE
SARAWAK
Borneo
Sumatra
Celebes
Java
INDONESIA
NEW GUINEA
Irian
PAPUA
CORAL SEA
N. Territory
AUSTRALIA
W. Australia
S. Australia
Queensland
New South Wales
Victoria
Tasmania
Perth
Adelaide
Melbourne
Sydney
Brisbane
TIME ZONE CHART OF THE WORLD

AZORES
MADEIRA AND
CANARY ISLANDS
SPAIN
AZORES
PORTUGAL
PONTA DELGADA
MADEIRA
FUNCHAL
SANTA CRUZ
DE TENERIFE
LAS PALMAS
CANARY
ISLANDS
AFRICA
NORTH
ATLANTIC
OCEAN
ICELAND
SIGLUFJORDUR
LON
AKUREYRI
HUSAVIK
KEFLAVIK
REYKJAVIK
HOFN
FAROE ISLANDS
KLAKSVIK
TORSHAVN
SUDUROY
NORWEGIAN SEA
HAMMERFEST
TROMSO
NARVIK
KIRUNA
BODO
SWEDEN
GRONG
TRONDHEIM
NORWAY
ORNSKOLDSVIK
ÖSTERSUND
SOLLEFTEA
BREMANGER
SUNDSVALL
SOGNDAL
HUDIKSVALL
GAVLE
BERGEN
BORLANGE
OSLO
LUDVIKA
UPPSALA
BOKN
KONGSBERG
FREDRIKSTAD
STOCK-
HOLM
STAVANGER
ESKILSTUNA
KRISTIANSAND
LYNGDAL
UDDEVALLA
MOTALA
BURGHEAD
REDMOSS
DUNDEE
WESTERGLEN
GLASGOW
DENMARK
BORÅS
VISBY
LONDONDERRY
EDINBURGH
SKIVE
ALBORG
BELFAST
GREAT BRITAIN
NORTH SEA
ÅRHUS
HELSINGBORG
TRUSKMORE
SKELTON
NEWCASTLE
KALUNDBORG
MALMÖ
ATHLONE
DUBLIN
BARROW
TONDER
COPENHAGEN
BALTIC SEA
IRELAND
KIPPURE
YORK
FLENSBURG
KIEL
BERLIN
MT. LEINSTER
HULL
NEUMÜNSTER
LÜBECK
CORK
SHEFFIELD
HOOGEZAND
SCHWERIN
HAMBURG
GERMANY
BREMEN
NAUEN
BURG
BARNSTAPLE
OXFORD
HOLLAND
HILVERSUM
GERMANY
KÖNIGSWUSTERHAUSEN
REDRUTH
BATH
LONDON
LOPIK
TEUTOB
BROCKEN
COTTBUS
BEXHILL
ROERMOND
WALD
RAMPISHAM
BRUSSELS
JÜLICH
LEIPZIG
BOURNEMOUTH
BRIGHTON
LILLE
ANLIER
KÖLN
DRESDEN
POLAND
ENGLISH CHANNEL
ST. QUENTIN
BONN
SUHL
NORTH
ATLANTIC
OCEAN
SAINT
BRIEUC
ROUEN
FRANKFURT
PLAUEN
BELGIUM
BAYREUTH
BREST
CAEN
REIMS
LUXEMBOURG
SAARBRÜCKEN
NÜRNBERG
CZECHO-
SLOVAKIA
RENNES
PARIS
LORIENT
CHARTRES
NANCY
BADEN BADEN
PASSAU
SENS
STRASBOURG
STUTTGART
NANTES
ANGERS
WERTACHTAL
WIEN
TOURS
FRANCE
DIJON
BASEL
MÜNCHEN
AUSTRIA
BAY OF BISCAY
ISSOUDUN
ALLOUIS
BESANÇON
GRAZ
BUDAPEST
POITIERS
BEROMÜNSTER
SCOL
ALDRANS
DOBL
OCEAN
LIMOGES
SWITZERLAND
KLAGEN-
FURT
LA CORUNA
CLERMONT
FERRAND
BOLZANO
LJUBLJANA
BORDEAUX
LYON
TRIESTE
SAN SEBASTIAN
SANTANDER
BILBAO
GRENOBLE
MILANO
VERONA
ZAGREB
JASTREBAC
OVIEDO
MIERES
BAYONNE
TORINO
VENEZIA
VIGO
TOULOUSE
GAP
GENOVA
YUGOSLAVIA
VALENCIA
LEON
PAU
NIMES
MT. CARLO
BOLOGNA
NORTE
VITORIA
MARSEILLE
RIMINI
SARAJEVO
PORTO
BURGOS
PAMPLONA
MONTPELLIER
NICE
S. REMO
FIRENZE
PESARO
PALENCIA
CALAHORRA
PERPIGNAN
PISA
VILA REAL
ANDORRA
LIVORNO
ANCONA
VALLADOLID
COIMBRA
PERUGIA
DUBROVNIK
PORTUGAL
SALAMANCA
SORIA
ZARAGOZA
PLAYA DE PALS
VATICAN
PESCARA
ADRIATIC SEA
GUARDA
MAJADAHONDA
BARCELONA
AJACCIO
SANTAREM
MADRID
ITALY
LISBOA
ARGANDA
TARRAGONA
ROMA
FOGGIA
BARI
PORTALEGRE
TOLEDO
NOBLEJAS
ELVAS
CACERES
CASTELLON
NAPOLI
SOUINZANO
SINES
CIUDAD REAL
ALBACETE
PALMA
SASSARI
TARANTO
MONCHIQUE
SPAIN
VALENCIA
DE MALLORCA
NUORO
FARO
SEVILLA
CORDOBA
ALICANTE
Balearic Isl.
CAGLIARI
HUELVA
CADIZ
MURCIA
MALAGA
MEDITERRANEAN SEA
PALERMO
GIBRALTAR
ALMERIA
MESSINA
CEUTA
ALGIERS
CALTANISSETTA
TANGER
TETUAN
CATANIA
G.M.T. -1
MOROCCO
TEBESSA
CONSTANTINE
ORAN
SETIF
TUNIS
SOUK AHRAS
TLEMCEN
BATNA
AIN BEIDA
VALLETTA
MALTA
SFAX
DEMOCRATIC REP.
LAGHOUAT
OF ALGERIA
TOUGGOURT
TUNESIA
EUROPE
0
200
400
600KM
G.M.T
G.M.T. +1

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WORLD RADIO

EUROPE

ALBANIA (People's Rep. of)

L.T: GMT+1h – **Pr.L:** Albanian.

RADIODIFFUSION TELEVISION ALBANAISE (Gov.)
ADDR: Rue Ismail Quemal, Tirana. **Te:** 3229. **Cable:** Albradio.
L.P: Dir.Gen: Th. Nano. Head Foreign Rel.Dept: K. Xhavara.
STATIONS: 50/100/120/240/500kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
1088	5960	7075	7280	9375	9750	11865
1214	6135	7080	7290	9430	9760	11935
1358	6150	7090	7300	9480	9780	11985
1394	6185	7120	7310	9500	9790	15400
1457	6200	7275	9370	9715	11845	15405
5050	7065					

HOME SCE. in Albanian: 0400-0500 on 1088kHz, 0500-0700 on 1088/5057kHz, 0700-1100 on 1358/5057kHz, 1100-1700 on 1088/5057kHz, 1700-2200 on 1088/1358kHz.

FOREIGN SCE.

Albanian	kHz
0600-0630	7090,6200
1030-1100	9500,11985
1230-1300	11985
1300-1400	7090
1800-1900	6185,7090
0000-0100 } 0200-0230 }	6200,7300 9790
Arabic	
0600-0630	9500,7065
1530-1600	9500,7065
Arabic	**kHz**
1700-1730	9500,7065
1900-1930	9500,7065, 1214
2000-2030	7075,11845
0330-0400 } 0430-0500 }	9500,7065 1214
Bulgarian	
1200-1230	7090,1214
1400-1430	9480,7080 6200
1530-1600 } 1700-1730 }	7090,6200 1214
1900-1930	7090,6200
2100-2130	7090,6200
0400-0430	7090,6200 1358
Czech	
0600-0630	7290,5960 1394
1230-1300	9375,7290
1400-1430	9375,7280
1600-1630	9375,7275
1900-1930	7275,5960 1394
2100-2130	7290,5960
2230-2300	7280,1394
English	
0630-0700	9500,7065
0700-0730c	11985,9500
0930-1000c	11985,9500
1100-1130a	11985,9500
1400-1430c	11985,9500
1530-1600b	11985,9480
English	**kHz**
1630-1700	9480,7065
1730-1800b	9500,7075
1830-1900	9480,7065
1930-2000b	9500,7075
2030-2100	9480,7065
2200-2230	9480,7065 1394
0000-0030a	9750,7065
0130-0200a	7300,6200
0230-0300a	7300,6200
0330-0400a	7300,6200
0430-0500a	9480,7300
French	
1500-1530	9480,7065
1600-1630	9500,7065
1800-1830	9500,7065
2000-2030	9500,7065
2100-2130	9480,7065 1394
2230-2300	9480,7065
0500-0530	9500,7065
German	
1200-1230	9375,7300
1330-1400	9375,7290
1500-1530	9375,7280
1700-1730	9375,7275 5960
1800-1830	7275,5960
2030-2100	7290,5960 1394
2200-2230	7290,5960
0500-0530	7290,5960 1394

EUROPE
0 200 400 600 KM
G.M.T. +1
G.M.T. +2
BARENTS SEA
NORWEGIAN SEA
WHITE SEA
BALTIC SEA
MEDITERRANEAN SEA
BLACK SEA
ADRIATIC SEA
NARYAN-MAR
KADSØ
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MURMANSK
NARVIK
KIRUNA
PYHÄTUNTURI
BODØ
GALLIVARE
ROVANIEMI
HAPARANDA
BODEN
LULEÅ
OULU
ARKHANGELSK
SYKTYVKAR
PERM
SWEDEN
YLIVIESKA
KAJAANI
GRONG
VÄNNÄS
UMEÅ
PYHÄVUORI
PIHTIPUDAS
ÖRNSKÖLDSVIK
PIETARSAARI
KUOPIO
JOENSUU
ÖSTERSUND
SOLLEFTEÅ
VAASA
FINLAND
PETROZAVODSK
ÄHTÄRI
SUNDSVALL
MIKKELI
L. LADOGA
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HUDIKSVALL
TAMPERE
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FALUN
GÄVLE
TURKU
HELSINKI
BORLÄNGE
LUDVIKA
TÄMMISAARI
LENINGRAD
YOSHKAR-OLA
KAZAN
KINGISEPP
UPPSALA
KOHTLA JÄRVE
IVANOVO
CHEBOKSARY
KARLSTAD
VÄSTERÅS
STOCKHOLM
TALLINN
GORKIY
SAFFLE
FARSTA
ÖREBRO
PÄRNU
Estonian S.S.R.
Russian Soviet Federal Socialist Republic
MARIESTAD
TARTU
TROLLHÄTTAN
NORRKÖPING
VISBY
VÕRU
KALININ
MOSCOW
KUIBYSHEV
SKÖVDE
VALMIERA
GÖTEBORG
JÖNKÖPING
VÄSTERVIK
RIGA
MADONA
SERPUKHOV
SARANSK
HALMSTAD
LIEPAJA
KULDIGA
Latvian S.S.R.
RYAZAN
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SMOLENSK
UNION OF SOVIET
KARLSKRONA
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HÖRBY
KAUNAS
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ORSHA
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SLUPSK
OLSZTYN
GDAŃSK
Byelorussian S.S.R.
BARANOVICHI
KURSK
VORONEZH
SZCZECIN
POLAND
BIAŁYSTOK
GOMEL
GERMAN
POZNAŃ
VOLGOGRAD
ZIELONA GÓRA
WARSZAWA
DEMOC. REP.
ŁÓDŹ
LUBLIN
LUTSK
KIEV
KHARKOV
JELENIA GÓRA
WROCŁAW
KIELCE
USTI NAD LABEM
LIBEREC
KATOWICE
RZESZÓW
LVOV
Ukranian S.S.R.
DNEPROPETROVSK
KARLOVY VARY
PRAHA
HRADEC KRÁL.
KRAKÓW
VINNITSA
ROSTOV
OSTRAVA
PLZEŇ
BANSKÁ BYSTRICA
KOŠICE
UŽHOROD
CHERNOVTSY
DONETSK
C. BUDEJOVICE
JIHLAVA
BRNO
RIM. SOBOTA
NYIREGYHÁZA
STAVROPOL
BRATISLAVA
MISKOLC
BAIA MARE
KISHINEV
Moldavian S.S.R.
ARMAVIR
BALATONSZABADI
BUDAPEST
ORADEA
IAŞI
ODESSA
KRASNODAR
NALCHIK
SZOMBATHELY
SZOLNOK
CLUJ
TIRGU-MURES
HUNGARY
RUMANIA
SIMFEROPOL
SOCHI
Georgian S.S.R.
LJUBLJANA
PÉCS
SIBIU
BRAŞOV
SUKHUMI
ZAGREB
LUGOJ
TRIESTE
RESITA
M. CIUC
BACĂU
BATUMI
SUBOTICA
NOVI SAD
KOPER
TG. JIU
BUCUREŞTI
CONSTANTA
KARS
BELGRADE
CRAJOVA
SHUMEN
YUGO SLAVIA
VIDIN
VARNA
SAMSUN
TRABZON
SARAJEVO
PLEVEN
NIŠ
BULGARIA
DUBROVNIK
PRIŠTINA
SOFIA
STARA ZAGORA
ITALY
TITOGRAD
VRANJE
PLOVDIV
ISTANBUL
PESCARA
SKOPJE
SHKODER
COMOTINI
ANKARA
THESSALONIKI
TIRANA
FLORINA
KAVALLA
BURSA
DIYARBAKIR
NAPOLI
BARI
ALBANIA
KORÇE
TURKEY
GJIROKASTER
LARISSA
GAZIANTEP
DEIREZ ZOR
KERKYRA
JOANNINA
VOLOS
IZMIR
ADANA
TARSUS
SYRIAN ARAB REPUBLIC
PALERMO
PATRAS
ANTALYA
ZAKYNTHOS
TRIPOLIS
ATHENS
HOMS
CALTANISSETTA
AMALIAS
GREECE
NICOSIA
TARTUS
RHODOS
CHANIA
IRAKLION
CYPRUS
LIMASSOL
BEIRUT
IRAQ
LEBANON
DAMASCUS
HAIFA
TEL AVIV
AMMAN
JERUSALEM
ISRAEL

Greek	kHz
1300-1330	9715,7065 1214
1430-1500	7090,6200 1214
1630-1700	7090,1214
1930-2000	7090,6185 1214
0430-0500	7090,6200 1358

Hungarian	
0630-0700	7290,5960 1394
1300-1330	9375,7290
1530-1600	9375,7280
1730-1800	7275,5960
2000-2030	7290,5960
2200-2230	7280,1088

Indonesian	
0630-0700	7090,6200
1200-1230	11935,9500
1300-1330	11935,9500
1430-1500	11985,9500
1830-1900	7080,6200
2300-2330	9790,7300

Italian	
1130-1200	7090,1214
1500-1530	7090,1214
1800-1830	7080,6200 1214
2030-2100	7090,6200
2130-2200	7090,6200
2230-2300	7090,6200 1088
0530-0600	7090,6200 1214

Polish	
0730-0800	7290
1430-1500	9375,7280
1630-1700	9370,7275
1830-1900	7275,5960
1930-2000	7290,5960 1394
2130-2200	7290,5960 1394
2230-2300	7290,5960
0530-0600	7290,5960 1394

Portuguese	
0700-0730	9480,6200
1000-1030	11985,9500
2130-2200	9500,6135
2300-2400	9750,7065
0100-0200	9500,7065

Rumanian	kHz
1330-1400	9715,1394
1430-1500	9480,7065
1700-1730	9480,7080 1394
1900-1930	9480,7080
2130-2200	9480,7075
0400-0430	9500

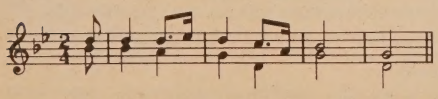
Russian	
1130-1200	11985,9500
1230-1300	11865,9500
1330-1400	15405,11985 9500,7065
1500-1530	15400,11985 9500,6200
1730-1800	15400,11845 9480,7065 1394
1830-1900	15405,11845 9500,1394
1930-2000	15405,11845 9480,7065
2030-2100	11845,9500 7075
2300-2330	7290,5960
0030-0100	9750,7065
0130-0200	9750
0200-0230	9750,7065
0300-0330	9500,7065 6200,1394
0400-0430	9750,7065 1394

Serbo-Croat	
1230-1300	7090,1214
1400-1430	7090,1214
1600-1630	7090,6200 1214
1730-1800	7090,6200
2000-2030	7090,1214
2200-2230	7090,6200
0500-0530	7090,6200 1214

Spanish	
1130-1200	11865,9760
1600-1630	11985,9480
1800-1830	11845,9480 1394
2100-2130	9430,7075
2300-2330	9430,1394
2330-2400 (Lat. Am)	9790,7300 6200
0100-0130	9790,7300 6200
0230-0300	9750,6185
0530-0600	9500,7065

a)=to No. America; b)=to Africa; c)=to Asia and Australia.

ANN: Albanian: "Ju flet Tirana". Arabic: "Huna Tirana". Bulgarian: "Govori Tirana". E: "This is Tirana Calling". F: "Ici Tirana". G: "Hier ist Tirana". Greek: "Milun Ta Tirana". I: "Parla Tirana". Czech: "Vola Tirana". Hungarian: "Itt Tirana beszeel". Polish: "Tu mowi Tirana". Portuguese: "Fala Tirana". Rumanian: "Vorbeste Tirana". Russian: "Govorit Tirana". Serbo-Croat: "Govori-Tirana". Sp: "Habla Tirana". Indonesian: "Disini Tirana" – **V.** by letter – **INT-SIG:** 9 notes played on two trumpets.



V. by QSL-folder or letter.

REGIONAL STATIONS

	kHz	kW	Times
1)	964	0.2	0700-1100,1200-1345,1600-2000
2)	998	0.2	0700-1100,1200-1500,1700-2000
3)	1165	—	0500-0900,1100-1530
4)	1307	0.2	1200-1345,1600-2000
5)	1292	0.2	0700-1100,1230-1430,1700-2030.

1) R. Korça, Drejtoria e R. Korces, Korce.
2) R. Kükesi, Drjtoria e R. Kükesit, Kükes.
3) R. Saranda, Drjtoria e R. Sarandës, Sarandë.
4) R. Shkodra, Drjtoria e R. Shkodrës, Shkodër.
5) R. Gjirokastra, Drejtoria e R. Gjirokastra, Gjirokaster.

Ann: "Ju flet Korça, Kükesi . . ." or "Ju flet Tirana" (when relaying Tirana).

ANDORRA

L.T: GMT+1h – **Pr.L:** French, Spanish, Catalan.

RADIO ANDORRA (Priv. Comm.)

ADDR: B.P. 1, 66720 Andorra-la-Vielle. **Te:** 20100. Spanish Hqs: Paseo de Gracia 12, Barcelona 7. **Te:** 2226017. French Hqs: 44, rue Bayard, 31000 Toulouse, France. **Te:** 629348 – Comm.Sce: Midi Media, 16 due de Passay, 75016, Paris – **Te:** 5277425.
L.P: Pres: J. Delvigne. Dir.Gen: G. Marquet. Dir.Gen. Adjoint and Dir-Tec: J.L. Marquet. French Dept: Dir.Prgr: A. Tibolla. Listeners Sce: C. Codina. Inf. Dept: J. Debézy, Marsol.
STATIONS: 701kHz 300kW – 6230kHz 25kW.
HOME SCE: On 701kHz: 0500-2400 – **French:** 0500-2000 – **French/Spanish:** 2000-2400.
On 6230kHz: French Mon-Fri 0900-1200. **English** Sat 0800-1400. **Dutch** Sun 0800-1600.
ANN: French: "Ici R. Andorre". Sp: "Aqui R. Andorra, Emisora del Principado de Andorra"; E: "This is R. Andorra International".
INT-SIG: Open and close down "National hymn of Andorra" – **V.** by QSL-card or letter. Rp. Rec. acc.
PUB: Prgr. schedule (weekly).

SUD RADIO (Radio des Vallées d'Andorre)

ADDR: B.P. 7, Andorre-la-Vieille. **Te:** 20260. **Telex:** 204. Offices in France, Toulouse: 1, rue Caraman; Paris: 78, Av. Raymond Poincaré – **L.P:** Dir.Gen: Jean-Louis Horbette.
STATION: 818kHz 900kW – **F.M:** 98.9MHz (4 studios).
HOME SCE. in French (for So.We. France): 0500-2400. **N:** Every h on the half h – **Wrp:** Every h.
ANN: "Vous écoutez Sud-Radio" – **V.** by QSL-card and letter. Rp.

AUSTRIA

L.T: GMT+1h – **Pr.L:** German – **EC:** a/c 50, 220/380V (yes).

ÖSTERREICHISCHER RUNDFUNK (ORF)

ADDR: 1136 Wien Würzburggasse 30. **Te:** 82910. **Cable:** ORF.

L.P: Dir.Gen: Dr. Otto Oberhammer. Adm.Dir: Dr. Walter Skala. Tech.Dir: Dipl. Ing. Norbert Wassiczek. Dir. of Radio Prgrs: Wolf In der Maur. Dir. of TV1: Gerhard Weis. Dir. of TV2: Franz Kreuzer.

STUDIOS in Graz, Klagenfurt, Linz, Salzburg Innsbruck, Dornbirn, Wien, Niederösterreich and Eisenstadt.

Get the up-to-the-minute news in the WRTH Newsletter. Now published 3 times a year. Write to the WRTH for more details!

HOME SCE: Österreich I: 0500-2305 (all st's stereo).
Mediumwave

	kHz	kW		kHz	kW
Aldrans I	520	10	Wien I	584	600/240
Lienz I	520	10	Dobl I	1025	100
Liezen I	520	10	Kronstorf I	1025	100
Klagenfurt I	584	25	Lauterach I	1025	10
Salzburg I	584	10	Mariapfarr I	1025	10

Low power MW: (0.05kW) **520kHz:** Murau – **584kHz:** Mayrhofen – **944kHz:** Unzmarkt – **962kHz:** 10 st's – **1025kHz:** 9 st's – **1052kHz:** 9 st's – **1088kHz:** 2 st's – **1142kHz:** 12 st's – **1151kHz:** Judenburg (0.1kW) – **1594kHz:** 4 st's.
N: W: Mainly on the h. exc. 1900 and 2000. Sun: 0600, 0700, 0800, 1000, 1200, 1400, 1500, 1600, 1700, 1800, 2100, 2200.
N. in English and French: W 0705, Sun 1205.

Österreich Regional: 0400(Sun 0500)-2305.
Mediumwave

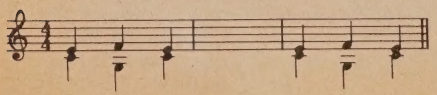
	kHz	kW		kHz	kW
Aldrans II	629	25	Salzburg II	773	1
Lauterach II	629	25	Linz II	890	20
Lienz II	629	1	Graz II	1394	25
Klagenfurt II	728	25	Wien II	1475	600/240

Low power st's (0.05kW): **566kHz:** 5 st's – **674kHz:** 6 st's – **733kHz:** 13 st's – **1124kHz:** Mürzzuschlag (0.1)+9 st's – **1313kHz:** Kötschach (0.1)+11 st's – **1349kHz:** 6 st's – **1457kHz:** Judenburg (0.1)+7 st's – **1475kHz:** 4 st's – **1484kHz:** Unzmarkt – **1493kHz:** 3 st's – **1546kHz:** 6 st's – **1594kHz:** 1 st.
N: 0400(W), 0530, 0600(Sun), 0700, 1000(W), 1200, 1600, 1800(W), 1900, 2100, 2200, 2300(Sat).

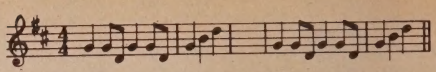
FM	Ö-1	Ö-Reg	Ö-3	kW
Dobratsch (Klagenfurt)	92.8	97.8	101.2	100
Dünserberg (Bludenz)	87.6	96.0	98.9	4
Gaisberg (Salzburg)	90.85	94.8	99.0	75
Goldeck (Spittal-Drau)	91.6	103.9	87.9	3
Hauser Kaibling (Schladming)	94.3	96.3	100.7	4
Hirschenstein (Rechnitz)	90.6	93.6	87.9	1
Jauerling (Sankt Pölten)	97.0	91.4	89.4	100
Kahlenberg (Wien)	91.9	97.9	99.9	100
		89.9		100
Kitzbüheler Horn (Kufstein)	97.5	95.4	101.8	5
Lichtenberg (Linz)	97.5	95.2	88.8	100
Mugel (Bruck-Mur)	87.6	93.2	98.7	20
Patscherkofel (Innsbruck)	92.5	96.4	88.5	50
Pfänder (Bregenz)	93.3	98.2	89.7	100
Rauchkofel (Lienz)	89.35	93.8	99.3	1
		95.9		
Schöckl (Graz)	91.2	95.4	89.2	100
Sonnwendstein (Semmering)	90.4	95.8	88.2	5
Wechberg (Weitra)	92.7	95.7	98.2	1

+low powers: 76 (Ö-1), 81 (Ö-Reg), 76 (Ö-3).

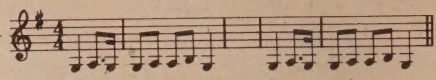
Österreich III (all st's stereo): 0500-2305.
N: On the h.
ANN: "Österreich 1, Studio (Wien Niederösterreich, Tirol . . .)"; "Österreich Regional, Studio . . ."; Österreich III" – **INT-SIG:** Österreich I; From the Austrian National Anthem.



Österreich Regional: Extract from ballet music from "Rosamunde" by Franz Schubert:



Österreich III: Electronic Music:



FI: By licence payments and adv – **AD:** Prgr I; free of advertising. Prgr.Reg: 20 mins (Network) 11 mins local per day. Prgr. III: 21 mins per day. **ALF:** Ö.Sch. 324, Radio.

SHORTWAVE SERVICE

ADDR: ORF-Shortwave Service, A-1136 Vienna. **Te:** (0222)-8291. **Telex:** 01/2397.
L.P: Intendant Dr. Alfred Macher. Head, Moosbrunn Shortwave Station: H.R. Leutgeb.
STATIONS: Moosbrunn 4×100kW (16.28E/48.00N); *Aldrans 10kW (11.27/47.15N).

kHz	kHz	kHz	kHz	kHz	kHz
6000	9650	11750	11895	15335	17765
6015	9690	11790	11950	15345	17770
6155	9745	11835	15105	15410	17840
7160	9770	11870	15305	15435	17850
7170					

Areas: I=Europe; II=So. We. Europe; III=No. America; IV=No. America(East); V=No. America(West); VI=Ce. America; VII=So. America; VIII=So. America(East); IX=No. Africa; X=We. Africa; XI=So. Africa; XII=Ea. Africa; XIII=Middle East; XIV=So. Ea. Asia/Australasia; XV=Ea. Asia.

Schedule 7/11/76–6/3/77

Area	Times	kHz	Antenna/Beam	
I	0400-2305	*6000	T	ND
	0500-2200	6155	V	ND
	0900-1200	7170	V	ND
	1200-1600	9770	V	ND
	1900-2200	7160	V	ND
II	0900-1200	9770	L	240°
	1200-1300	11790	L	240°
	1400-1500	11750	L	240°
III	2300-0400	6155	L	303°
IV	2300-0400	9770	R	303°
V	0400-0600	6015	L	320°
VI	0200-0400	9650	R	270°
VII	2100-2300	15435	L	255°
VIII	0000-0200	11870	R	236°
	2100-2200	11895	R	236°
	2200-2400	11835	R	236°
IX	1600-1700	15335	L	210°
X	1900-2100	11950	L	210°
XI	1700-1900	17770	R	175°
	1900-2100	15345	R	175°
XII	1700-1900	15335	L	155°
XIII	0600-0900	15410	R	123°
	1600-1700	9745	R	123°
	1700-1900	9690	R	123°
XIV	0400-0600	17840	R	90°
	0600-0900	17850	L	90°
	0900-1400	17765	R	90°
	1500-1600	15305	L	90°
XV	0600-0900	15105	R	56°

*) W 0400-2120(Thurs 2130, Sat 2305), Sun 0500-2120.

Antennas: L=Logarithmic periodic horizontal; R=Rhombic; T=Tropical broadc; V=Vertical cage; nd=Omnidirectional.

N. in German: 0000†, 0100†, 0200†, 0500, 0600, 0700†, 0900, 1100, 1200†, 1300, 1500, 1600, 1730†, 1800, 1900, 2100, 2200, 2300. **English:** 0130†, 0330†, 0830†, 1230†, 1830†. **French:** 0100†, 0800†, 2030†. **Spanish:** 0100†, 0300†, 1400†, 2210†. **Esperanto:** Sat 1645, Sun 0545. †=N.+Report from Austria.

Österreichs Auslandsdienst auf Kurzwelle

Austria calling on short wave

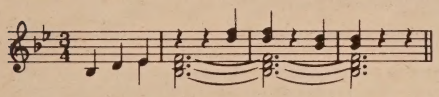
Autriche ondes courtes

Austria en onda corta

ORF

AUSTRIAN RADIO
Short-Wave Service
A-1136 VIENNA
Austria

DX-PRGR. German: Sat 1330; English: Sun 0915, 1805; French: 1st & 3rd Fri/Sat 2030, 0100, 0800; Spanish: Wed 1400, 2210, Thurs 0100, 0300.
ANN: "Osterreich auf Kurzwelle" – **INT-SIG:** "An der schönen blauen Donau" Waltz by Joh. Strauss.



V. by QSL-card; rep. of reception and rec. will be appreciated to Austrian Radio, SW-Service, A-1136 Vienna. Report sheets available. Latest schedule free on request.

SCHULUNGSSENDER DES OSTERREICHISCHEN BUNDESHEERES

ADDR: Gussriegelstrasse 45, A-1102 Wien.
STATION: OEY21/OEY52 6221kHz (Wien and Salzburg).
D.PRGRs in German: Mon-Fri 1000-1400, 1530-1900.
Morse-Course: 1003-1030 and 1700-1730. **Music, News, Information:** 1030-1400, 1530-1700, 1730-1900. **V.** by QSL-card.

AZORES (Portuguese)

L.T: GMT–1h – **Pr.L:** Portuguese – **E.C:** a/c 50, 220/380V (no).

EMISSOR REGIONAL DOS ACORES (Gov.)

ADDR: Av. Gasper Fructuoso, Ponta Delgrada, S. Miguel. **Te:** 22624.
STATIONS: Ponta Delgada 836kHz 1kW – CSA97 4865kHz 1kW – Horta 1259kHz 1kW.
HOME SCE: 0800-0100 – **N:** 1100, 1200, 1330, 1900, 2000, 2300, 0030.
ANN: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Acores da Emissora Nacional" – **INT-SIG:** Chimes – **V.** by letter or QSL-card.

R. CLUB DE ANGRA (Comm.)

ADDR: Apartado 12, Angra do Heroismo, Terceira. **Te:** 23102. **Cable:** Radioclub.
L.P: Dir.Tec: J.E. da Silva Luis Fernandes.
STATION: CSB80 1394kHz 1kW.
HOME SCE: W 0700-2400. **N:** 0730, 0815, 1100, 1300, 1800, 2030, 2200, 2345.
ANN: "Aqui estacão CSB80 de R. Club de Angra (A Voz da Terceira)" – **INT-SIG:** Viola – **V.** by letter. Rec. acc.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)

ADDR: Aeroporto de Santa Maria. **Te:** 82182. **Cable:** Asas Asmaria.
L.P: Pres: Eduardo F.S. Cambraia. Dir.Tec: C. Carvalho.
HOME SCE: CSB81 1570kHz 1kW: W 1200-1600, 1900-0200; Sun 1100-0200. **N:** 1300, 2100, 2200 – **Wrp:** 1400, 1600, 1900, 0200.
ANN: "Estacão Emissora do Clube Asas do Atlantico" – **V.** by QSL-card or letter – **INT-SIG:** Opens with music played on a Portuguese string instrument (viola).

PORTUGUESE ARMED FORCES

ADDR: Rua Rainha D. Amelia 70, 1°, Angro do Heroismo, Terçeira.
STATION: Lajes Field 650kHz 0.3kW – **HOME SCE in Portuguese:** 1500-2300.
ANN: "Aqui Rádio Lajes" – **V.** by letter.

AFRTS (US Air Force)

ADDR: 1605th Air Base Squadron, APO, New York, NY 09406.
STATION: Lajes 1500kHz 0.1kW – **FM:** 96.7MHz 0.15kW.

There is something missing at your friend's place . . .

You're right! The new edition of the WRTH!

BELGIUM

L.T: GMT+1h – **Pr.L:** French, Dutch, German – **E.C:** a/c 50 220V, (yes).

RADIODIFFUSION-TELEVISION BELGE (RTB) FRENCH LANGUAGE NETWORK (RTB)

Public sce. Grants by French language Cultural Council.
ADDR: Cité de la Radio-Télévision, B-1040 Brussels. **Te:** 735 90 60. **Cable:** RTB Brussels.
L.P: Dir.Gen: R. Wangermée. Dir.Prgr: J. Mogin. Co-ordinator RTB-1, RTB-2, RTB-3: E. Henceval. Tech.Dept: Ag.Dir.Gen: M. Gewillig. Chief Eng: A. Rorive, A. Dehon.

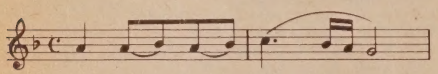
Mediumwaves

Station	kHz	Prgr	kW
Wavre-Overijse	620	1	150
Aye	1043	1	10
Houdeng	1124	2	10
Liège	1484	2	5

FM: 3rd prgr. is stereo.

Station	I	II	III	kW
Anlier	87.6	91.5	94.1	10
Houdeng		92.3	96.6	50
Ougrée	88.5	90.5	99.5	10/50/10
Bruxelles			96.1	2
Rivière		92.8		10
Recht	94.2			1.5
Wavre		93.2	91.2	10/10

Reg. prod. centres: Brussels, Liège, Namur, Mons.
RTB-1: 0500(Sun 0530)-2300. **N.Wrp:** 0500, 0530, 0600, 0630, 0700 and hourly to 1900, 2100, 2200, 2245.
RTB-2: 0458(Sun 0528)-2200(Sat 2300). **N.Wrp:** 0530, 0600, 0630, 0700, 0800, 0900, 1000, 1200, 1730, **Reg. prgrs:** W 0530-0800; Fri 1700-2200; – R. Hainaut on 1124kHz+92.3MHz – R. Liège on 1484kHz+90.5MHz – R. Namur-Luxembourg-BW on 1043kHz/91.5/92.8MHz.
RTB-3: 0600-2200(Sat 2300). **N.Wrp:** 0600, 0630, 0700, 0730, 0800, 1200, 1800.
ANN: "Radiodiff-Télévision Belge, premier, deuxiéme or troisième prgr" – **INT-SIG:** Xylophone: Extract from Gretry's famous melody: "Où peut-on être mieux?"



V. by QSL-card. (Re. to Room F.520) – **F.PL:** 300kW on 620kHz.

Centre de Production International
(International Centre)
ADDR: ORU, French Network, P.O. Box 202, B-1040 Brussels. **Te:** 649.60.50. **Cable:** RTB: International. **Telex:** 2246 BRTBIN B.
L.P: Head of Centre: J.C. Mignon. Internat.Rel: C. Vial. Internat.Prod: A. Capelle. Shortwave: Belgian Sce: G. Fischer. Foreign Sce: E. Debongnie.
STATIONS: ORU 1/2 250kW; ORU 3/4 100kW; ORU 6 50kW.

kHz	kHz	kHz	kHz	kHz
6010	9725	11845	17740	21460
9610	11805	15210	17770	21690

All trs in French
Abbreviations: I=Africa; II=SW Europe; III=SE Asia.

Times	Area kHz	
0500-0615(W)	I 11845 / **9610**	Rel. RTB I
0630-0735(W)	I 15210 / **17770**	Rel. RTB I
0530-0845(Sun)	I 15210 / **17770**	Rel. RTB II
0845-100(Sun)	I 15210 / **17770**	Rel. RTB II+I
1000-1300(W)	I 15210 / **21460**	Own prgr. + Rel. RTB I from 1200
1300-1330(W)	I 15210 / I **17740** / I **21460** / III 21690	Missionaries (Sat for seamen)
1500-1630(W)	I 17740 / **21460** / II 6010 / **9725**	News and Stock Exchange Press Review – Urgent Messages Rel. RTB I from 1530
1330-1600(Sun)	I 15210 / **21460**	Own prgr (Mailbag)+ Rel. RTB I from 1400
1715-2210(W)	I 9725 / **11805**	International prgr. exc. Rel. RTB I from 1800 to 1900
1730-2210(Sun)	I 9725 / **11805**	

Freq's in bold: 250kW.

N: 0500, 0530, 0600, 0630, 0700, 0730, 1030, 1115, 1200, 1500, 1715, 1800, 2045, 2200.
DX-Prgr (DX-Editor: Paul Renard): Fri at 1900.
ANN: "Ici Bruxelles, Programme International de la Radiodiffusion Télévision Belge, la Voix de l'Amitie" – **INT-SIG:** Starting: Xylophone – Closing: Belgian National Anthem "La Brabançonne" – **V.** by QSL-card. Rec. acc. Re. to Station ORU, P.O. Box 202, B-1040 Brussels – **PUB:** detailed schedule (free).

BELGISCHE RADIO EN TELEVISIE (BRT) DUTCH LANGUAGE NETWORK

Grants by Parliament through Dutch-language Cultural Council.
ADDR: Omroepcentrum, B-1040 Brussels. **Te:** 736 10 10. **Cable:** BRT Brussels. **Telex:** 22486 BRTBIN B.
L.P: Dir.Gen: P. Vandenbussche. Prgr. Dir: L. van Uytven. Dir.BRT-1: A. Waterschoot. Dir.BRT-2: J. Briers. Dir.BRT-3: K. Aerts. Dir.Int.Prgr. and Rel: W. Sanders. Tech.dept.Dir.Gen.(Acting): M. Gewillig. Chief Eng: A. Declercq, M. Paternoster.

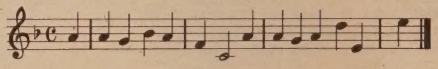
Mediumwave

Station	kHz	Prgr.	kW
Wolvertem	926	1	300
Bredene	1484	1	2
Veltem	1511	2	20
Kuurne	1594	2	2

FM: 3rd prgr. is stereo.

Station	I	II	III	kW
Aalter	95.7	98.6	90.4	10/50/10
Genk	99.9	97.9	89.9	10
Schoten		97.5		10
Veltem		93.7	89.5	50

Reg. prod. centres: Brussels, Antwerp, Ghent, Hasselt, Kortrijk.
BRT-1: 0430(Sun 0530)-2245. **N.Wrp:** 0500, 0530, 0600, 0630, 0700 and hourly to 1800, 2000, 2100, 2200, 2240.
BRT-2: 0430(Sun 0530)-2245. **N.Wrp:** 0500, 0600, 0630, 0700, 0800, 0900, 1200, 1500, 1600, 1800, 1930, 2000, 2100, 2200, 2240.
BRT-3: 0700-2245. **N.Wrp:** 0700, 0800, 1200, 1800, 2240.
ANN: "Belgische Radio en Télévisie, BRT-1, BRT-2 or BRT-3" – **INT-SIG:** First bars of Beiaardlied (Extract from Rubens Cantata by Peter Benoit).



ALF: Radio: 458,- Bfrcs.

INTERNATIONAL PROGRAMMES (Shortwave Service – ORU).
ADDR: ORU, P.O. Box 26, B-1000 Brussels. **Te:** 649.20.80. **Cable:** BRT Brussels.
L.P: Dir: W. Sanders. Dutch Sce: M. Vertommen. Foreign Sce: A.K. Rottiers.
STATIONS ORU 1/2: 250kW, ORU 3/4: 100kW.

kHz	kHz	kHz	kHz	kHz	kHz
6010	9725	9745	11940	15210	17815
9650	9730	11790	15130	17740	21460

Abbreviations: Dutch=D; English=E; Spanish=Sp; Africa=I; No. America=II; So. America=III; So. Europe=IV; Far East=V.
Freqs in bold: 250kW.

Times	L	Area	kHz	
0430-0615(W)	D	I	**9650**	African Sce
	D	I	11790	
0630-0730(W)	D	I	**17815**	
	D	I	15130	
0530-0745(Sun)	D	I	**17815**	
	D	I	15130	
0800-1000(Sun)	D	I	**17740**	
	D	I	21475	
1000-1300	D	I	**17740**	
	D	I	21475	
1300-1330	D	I	**21460**	Missionaries:
	D	I	**17740**	Tues, Thurs,
	D	I	15210	Sun
	D	V	21690	Seamen: Sat
1330-1700(Sun)	D	I	**17740**	African Sce
			21475	
1630-1700(W)	D	I	**21460**	News of Stock Exchange
	D	I	**17740**	Press Review – Urgent
	D	IV	9725	Messages
	D	IV	6010	
1715-1800	E	I	**11940**	Brussels Calling
	E	I	9745	
1800-2215	D	I	**11940**	Missionaries (Tues,
	D	I	9745	Thurs, Sun) 1830
				Seamen (Fri, Sat) 2130
2245-2300	Sp	III	9730	Habla Belgica (S.A.)
2300-2330	D	III	9730	So. American Sce
2345-0015	D	II	9725	No. American Sce
0015-0045	E	II	9725	Brussels Calling (N.A.)

Prgrs in English: "Brussels Calling (Africa) 1715, (No. America) 0015.

DX/Prgrs: English: Africa: 4th Sun 1730. No. America: 4th Sun 0015. Spanish: So. America: 4th Sun 2245. Dutch: Africa: 4th Tues 2105.

ANN: Dutch: "Hier is Brussel, de Belgische Radio en Télévisie – Werelduitzendingen". E: "This is Brussels, Belgische Radio en Télévisie – English Sce". Sp: "Aqui Bruselas, Belgische Radio en Télévisie – Emitiendo en Español" – **INT-SIG:** Starting: "t Kwezelken". Closing: "Groeninge" – **V.** for all Radio and TV networks by QSL-card. Rec. acc. Re. to Station ORU, P.O. Box 26, B-1000 Brussels – **PUB:** detailed schedule (free).

GERMAN LANGUAGE NETWORK

("Belgischer Hör- und Fernsehfunk") (BHF)

ADDR: Pl. E. Flagey 18, B-1050 Brussels. **Te:** 649.07.41. **Cable:** RTB-BHF.

L.P: Prgr Head: P. Moutschen. **FM:** 88.5MHz 10kW (Ougrée), 94.9MHz 1.5kW(Recht): W 0530-0815, 1100-1315, 1600-1915; Sun 1100-1315, 1600-1915 – **N.Wrp:** 0530, 0600, 0700, 0755, 1130, 1255, 1730, 1855.

ANN: "Belgischer Hör- und Fernsehfunk" – **V.** by QSL-card (Re. to Room F.221).

BULGARIA (People's Rep. of)

L.T: GMT+2h – **Pr.L:** Bulgarian – **E.C:** a/c 50 (yes).

COMMITTEE FOR RADIO & TELEVISION

at the Committee for Art and Culture (Gov.)

ADDR: 4 Bd. Dragan Tsankov, Sofia. **Te:** 8541. **Cable:** Bulgarradio. **Telex:** 22557.

L.P: Pres: L. Pavlov. 1st Vice-Pres.(incl. TV): Ivan Slavkov. Vice-Pres. Radio: B. Traikov. Vice-Pres.(Adm): I. Bachvarov. Vice-Pres. Tech.Dept: Ing. Nicola Antonov. Vice-Pres.(Construction): M. Ivanov. Head, Foreign Rel.Dept: Georgi Christov.

STATIONS

Location	P	kHz	kW	Location	P	kHz	kW
Vidin	2	575	1000	Varna	1	773	30
Pleven	1	593	250	Shumen	2	827	500
Sofia	2	593	60	Blagoevgrad	1	863	30
Dulovo	1	701	2	Pleven	2	944	30
Khascovo	1	701	10	Christo Botev	2	962	100
Silistra	1	728	1	Petrich	1	1043	2
Plovdiv	2	746	30	Stara Zagora	2	1124	150
Stolnik	1	773	30	Kurdjali	1	1160	500
Varna	1	1160	30	Blagoevgrad	2	1322	50
G. Delchev	1	1178	2	Kurdjali	1	1376	150
Vidin*	2	1223	1000	Sofia		1376	30
Shumen	1	1295	150	Stolnik	2	7670	15
Smolyan	1	1295	2				

*) with special beamed aerial to So. Europe, Africa and Near East.

FM: 3rd prgr. is stereo.

Station	I	II	III	kW
Blagoevgrad	67.76	66.20	66.98	15
Botev	70.88	72.44		60
Bourgas	67.58	66.02	66.80	15-25
Kurdjali	67.40	65.84	66.62	10
Petrich	66.42			–
Plovdiv		68.36		3
Sliven	68.48			–
Smolyan	67.97			–
Sofia	67.28	69.26	71.45	10/10/2
Varna		69.41		–

HOME SERVICE

Sofia 1 ("Horizon"): 24h music and news: 0300-2330. **N:** Every half h. Relay Moscow in Bulgarian: 1530-1600(W), 1330-1400(Sun).

Sofia 2 ("Christo Botev"): 0400-2200. **N:** 0530, 0830, 1030, 1430(Sun 1400), 1630, 1830, 2030, 2120.

Sofia 3 ("Orphay") (stereo) on FM: 1400-2200. **N:** 1630, 1830, 2030.

LOCAL STATIONS

R. Blagoevgrad: 0300-2330 on 863kHz. Own prgrs: 0430-0515 and 1700-1735. Other times relay Sofia 1.

R. Plovdiv: 0300-2330 on 746kHz. Own prgrs: 0330-0430, 0440-0530, W 1330-1400, Sun 1630-1640, 1640-1700. **N:** 0500, 1640(Sun 1630). Relay Sofia 1: 0300-0330, 0430-0440, 2130-2330. Other times relay Sofia 2.

R. Shumen: 0300-2330 on 1295kHz. Own prgrs: 0500-0525(Sat/Sun), 0525-0530, 0535-0600, W 1330-1400, 1640-1700. **N:** 0555(W), 1640. A special prgr. in Turkish (on 1295/1376kHz): 0400-0500, 0500-0525(Mon-Fri), 1000-1100, 1700-1730(Sat/Sun), 1730-1830. Relay Sofia 1: 0300-0400, 0530-0535, 2130-2330. Other times relay Sofia 2.

R. Stara Zagora: 0330-2130 on 1124kHz. Own prgrs: 0330-0430, 0445-0530, W 1330-1440, 1635-1640(Sun), 1640-1700. **N:** 0400(W), 1640(W). Relay Sofia 1: 0430-0445. Other times relay Sofia 2.

R. Varna: 0300-2330 on 773kHz. Own prgrs: 0330-0600, W 1330-1400, 1630-1700. **N:** 0430, 1630(W). A special prgr. for holidaymakers on the Black Sea(May-October each year); 0600-1200 in 6 languages. **N: Russian:** 0600, 0900, 1150. **English:** 0605, 0905, 1155. **German:** 0700, 1000. **Polish:** 0705, 1005. **French:** 0800, 1100. **Czech:** 0805, 1105. Other times relay Sofia 1.

FOREIGN SERVICE

STATIONS: Stolnik (G.C: 23.35E/42.42N): 1×15, 1×120kW SW-tr; Kostinbrod (G.C: 23.18E/42.49N): 6×50, 1×100kW SW-trs; Plovdiv: 2×500 SW-trs: Vakarel: 1×100kW and Vidin: 1×500kW MW-tr.

kHz	kW	kHz	kW	kHz	kW
962	100	6160	120	9550	50
1223	500	7115	50	9560	50
*5940	50	7255	50/120	9700	50/120
6070	50/100	7270	50	11765	50
6085	50	7275	50	*11970	50
6135	500	7670	15	17825	50

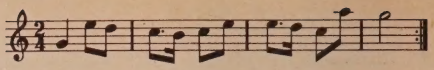
OPERATION SCHEDULE

I=We. Europe; II=So. We. Europe; III=No. America; IV=Ce. America; V=So. America; VI=Ea. Africa; VII=We. Africa; VIII=Near East; IX=Balcans.

Albanian	Area	kHz
0430-0500	IX	6070,6085,7255,7670, 1223
1600-1630	IX	6070,7275,7670,1223
1800-1825	IX	6070,7670
2000-2030	IX	6160,7270,7670
Arabic		
1130-1230	VI/VIII	9700,11765,15380
1700-1755	VI/VIII	6135,7275,7670,9560 9700,11765
2000-2100	VI/VII/VIII	6135,9560

Bulgarian	Area	kHz
1900-1930	I/II/III/VI/VIII	6160,7670
2200-2225	I/II/V/VI/VII	7670,11765,17825,962
2300-2325	II/V	7255,9560
2330-2400	III	9700
0030-0100	II/IV/V	7255,9560
0100-0130	III	9700
English		
1905-1930	VI	11765,17825
1930-2000	I	6070,9700
2105-2200	VII	9560,11765,17825
2130-2200	I/III	9700
0000-0100	III	9700
0430-0500	III	7115
French		
1900-1930	I	6070,9700
1930-2000	VI	11765,17825
2100-2130	I/III/IX	6070,7670,9700
2200-2230	VII	9560
German		
2000-2100	I	6070,9700
Greek		
0400-0430(W)	IX	6070,6085,7255,7670, 1223
0500-0600(Sun)	IX	6070,6085,7255,7670
0600-0630(W)	IX	6070,6085,1223
0900-0955(Sun)	I	11970
1100-1125	I	9550,9700,11970
1630-1655	IX	6070,6160,7275,7670
1930-2000	IX	6160,7670
2030-2100	IX	6160,7670
Italian		
1800-1825	II	6160,7275
2030-2100	II	5940,7270
2200-2230	I/II/III	9700,1223
Portuguese		
2150-2230	II	6085
0100-0125	V	7255,9560
0230-0300	V	7255,9560
Serbo-Croat		
0500-0529(W)	I/IX	6070,6085,7255,7670
0500-0530(Sun)	I/IX	1223
0630-0700(W)	IX	6085,1223
0730-0955(Sun)	IX	6085,7255,7670,1223
1400-1425	IX	6070,6085,1223
2130-2200	IX	7670,1223
Spanish		
2230-2300	II/V	7255,9560
2330-0030	II/V	7255,9560
0130-0230	IV/V	7255,9560
0430-0500	I/III	5915
Turkish		
0530-0600(W)	VIII/IX	6070,6085,1223
0600-0730(Sun)	VIII/IX	6070,6085,7255,7670 1223
1000-1100	I/VIII/IX	9550,9700,11970
1600-1700	IX	6135,9560
1830-1900	VIII/IX	6135,6160,7670,9560 9700
1900-2000	VIII/IX	6135,9560

For Foreign workers in West Europe:
On 9700kHz: 0430 Spanish, 0500-0525(W) Serbo-Croat, 0500(Sun) Greek, 0600-0730(Sun) Turkish. On 11970kHz: 0900-0955(Sun) Greek, 1000-1100 Turkish. On 9700kHz: 2200-2230 Italian.
Foreign prgr. on 1223kHz:
0400-0430 Greek, 0430-0500 Albanian, 0500-0525 Serbo-Croat, 2130-2200 Serbo-Croat, 2200-2230 Italian.
DX-PRGR. English: Fri 1930, 2130(to Gt. Britain); Sat 0000, 0430(to USA); **German:** 1st and 3rd Sun 2000. **French:** 1st Sun 1900, 2100.
ANN: Albanian: "Ju Flet Sofia". Arabic: "Huna Sofia". Bulgarian: "Govorry Sofia". E: "This is Sofia, Bulgaria calling". F: "Ici Sofia Radiodiff. Television Bulgarie". G: "Hier spricht R. Sofia, Sofia, Bulgarien". Greek: "Milai Sofia". I: "Quie Sofia". Serbo-Croat: "Ovde R. Sofia". Sp: "Habla Sofia". Turkish:"Burasi Sofia radiosu" – **INT-SIG:** Youth March played on organola.



V. by QSL-card or letter. Rec. acc – **PUB:** Prgr. schedule – **AD:** 1300-1400 – **ALF:** Levas 5.

CZECHOSLOVAKIA

L.T: GMT+1h – **Pr.L:** Czech, Slovak – **E.C:** a/c 50 (yes).

CESKOSLOVENSKY ROZHLAS (Gov.)

ADDR: Czechoslovak Radio, Praha 2, 12099 Vinohradska 12. **Cable:** Radiopraha. **Te:** 2115. **Telex:** 121 100.
L.P: Dir.Gen: Jan Risko. Dir. Central News Service: K. Faix. Dir. Czech Radio(Prague) and Dep.Dir.Gen: Dr. K. Hrabal. Dir. Slovak Radio(Bratislava) and Dep.Dir.Gen: Dr. P. Kovac. Dir. Foreign Sce: Dr. V. Vipler. Dir. Foreign Rel. and Prgr. Exchange: Oldrich Pokorny.

STATIONS

Mediumwaves	kHz	kW	Prgr
Uherske Hradiste	272	100	H
Melnik	638	150	P
Usti nad Labem	701	2	H+Reg
Bratislava	701	6	B
Presov	701	30	B+Reg
Bans. Bystrica	701	100	B+Reg
Tatry	701	14	B+Reg
Orava	701	6	B+Reg
Zilina	701	3	B+Reg
Ostrava	845	30	P+Reg
Ces. Budejovice	845	30	P+Reg
Brno	953	100	P+Reg
Plzen	953	30	P+Reg
Hradec Kralove	1016	6	H+Reg*
Bratislava	1016	6	H+Reg*
Nitra	1016	30	H+Reg*
Rim. Sobota	1016	30	H+Reg*
Bratislava	1097	400	B+Reg
Presov	1232	100	H+Reg
Bans. Bystrica	1232	14	H
Nitra	1232	30	H
Rim. Sobota	1232	30	H
Praha	1232	30	H+Reg
Jihlava	1484	7	P+Reg
Brno	1484	3	P+Reg
Mnich, Hradiste	1484	7	H+Reg
Hradec Kralove	1520	6	H+Reg
Karlovy Vary	1520	30/60	H
Ces. Budejovice	1520	30/60	H
Ostrava	1520	30	H
Hradec Kralove	1520	6	H+Reg
Olomouc (Ostrava)	1594	30	P+Reg
Liberec	1594	6	H+Reg

*) 0600-1500 then only H 1232kHz.

FM	B	D	H	V	kW
Banska Bystrica	72.50	69.68	70.94		10/10/1
Bratislava	71.12	68.84	67.76		10/10/1
Brno			71.87	69.86	10
Ceske Budejovice			71.63	70.07	10
Hradec Kralove			67.22	69.35	4
Kosice	66.38	68.87	67.94		10/10/1
Kralova Hola	67.28	69.20	68.06		1
Krizava	71.60	69.50			2
Liberec			72.74	69.98	2
Ostrava			67.10	69.08	4
Plzen			67.34	70.34	10
Praded			68.06		1
Praha			66.83	68.96	4
Usti Nad Labem			72.20	70.58	4

Praha prgr. on Ostrava 66.32MHz 4kW.
P=Praha, H=Hvezda, B=Bratislava, D=Devín, V=Vltava.

HOME SERVICE

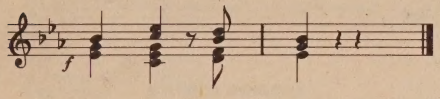
HVEZDA: Czech/Slovak: 24h. **N, Wrp:** W 0000-0300 hourly, 0300-0700 every half h, 0700-2302 hourly. Sun 0000-2302 hourly.

PRAHA: Czech: 0330(Sun 0500)-2300. **N, Wrp:** W 0330, 0400, 0500, 0530(exc. Sat), 0600, 0830, 1030(exc. Sat), 1130, 1430, 1630(Sat 1600), 1730, 2030, 2250, Sun 0530, 0630, 0800, 1130, 1600, 1730, 2030, 2250.

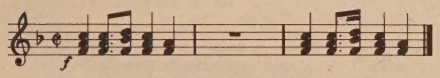
VLTAVA: Czech: 0755(Sat 0650, Sun 0655)-2200. **N, Wrp:** Mon-Fri 0800, 1400, 2150; Sat 0900, 1400, 2150; Sun 0900, 2150 – **L.L:** Russian(Intermediate): Tues 0920-0935, Thurs 1700-1715, Sat 0730-0745(Sept-Dec 76); **German** (Intermediate) Jan-June 1977. **Russian:** Thurs/Fri 1715-1730, Sat 0715-0730. **English/German:** Wed 1715-1730, Sat 0745-0800(alternatively). **French/Spanish:** Wed 1700-1715, Sat 0800-0815(alternatively).

BRATISLAVA: Slovak: 0300(Sun 0500)-2300. **N, Wrp:** W 0330, 0400, 0500, 0530, 0600, 0800(not Sat), 0930, 1130, 1530, 1730, 2030, 2200. Sun 0500, 0600, 0650, 0830, 1130, 1500, 1730, 2030, 2200. **Sport N:** 0430(W), 0630(W) – **Foreign Press:** W 1000, 1330. **Hungarian:** Mon-Fri 0500-0600, 1100-1200, 1600-1700; Tues/Thurs 0900-0930; Thurs 1300-1400; Sat 0600-0700, 0900-1600; Sun 0600-1400. **Ukrainian:** 1100-1115(Mon-Fri), 1400-1430(Mon-Fri), 0800-1000 and 1330-1500(Sat), 0730-0900 and 1330-1500(Sun).

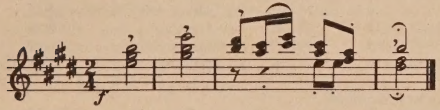
DEVIN: Slovak: 0855(Sat 0650)-2200. **N, Wrp:** Mon-Fri 0900, 1400, 2115; Sat also 1400, 2150; Sun also 2150 – **INT-SIG. Praha:** "The two opening bars of Smetana's symphonic poem 'Vysehrad' ".



Hvezda: Motif of a march by L. Toman.



Vltava: Motif of Smetana's symphonic poem "Vltava".
Bratislava: Fanfares from a march by B. Urbanec:



Devin: Motif of Opera Svatopluk by E. Suchon.

FOREIGN SERVICE

STATIONS (G.C: 15.09E/50.09N): 120/200kW.

kHz	kHz	kHz	kHz	kHz	kHz
1286	6055	9505	9605	11855	15395
5930	7245	9540	9630	11990	17840
6015	7345	9600	9740	15110	21700

TO EUROPE

Inter-Prgr	kHz
0630-1157*	1286,6055
	9505
2300-0055*	1286,6055b
	9740b
English	
1630-1657	5930,7345
1900-1927	5930,7245a
	7345
2000-2027	5930,7345
2130-2200	1286,6055
French	
0600-0630	6055,9505
1830-1900	1286,6055
1930-1957	5930,7245
2030-2100	1286,6055
German c) for Austria	
1700-1730	1286,6055
1800-1830c	1286,6055
1900-1930	1286,6055
2100-2130	1286,6055
Italian	
1200-1300	6055,9505
1300-1457	6055,9505
(Sat/Sun only)	
1730-1800	1286,6055
1930-2000	1286,6055
2200-2230	1286,6055
Portuguese	
1930-1957	7345
Russian	
1200-1300	1286
Spanish	
1700-1727	5930,7345
1830-1857	5930,7245
	7345
Spanish	
2230-2257	1286,6055
Czech/Slovak	
2000-2030	1286,6055

*) in Czech/Slovak, German, French, English;
a) to the Eastern Mediterranean area; b) to No. America.

TO AFRICA

Arabic	kHz
1630-1727	9605,11990
	17840
1930-2027	6015,9600
	11990
English	
1530-1625	5930, 6055a
	7345b,9605
	11990c,15110
	17840
English	
1730-1825	5930,7345
	9605,11990
	17840
French	
1830-1925	9600,11990
	17840
2030-2125	5930,6015
	7345,9600
	11990
Portuguese	
2130-2157	9540

a) to Europe; b) to S. Ea. Asia; c) also to S. Ea. Asia.

TO SO. & EA. ASIA, PACIFIC

Czech/Slovak	kHz
0800-0830	11855a,15395
	21700b
1500-1530	5930d,6055c
	7345,9605d
	11990b,15110
	17840d
English	
0730-0800	11855a,15395
0830-0900	21700b
0900-0930	11855a,15395
(Sat/Sun only)	21700b
1430-1457	5930,7345
	9605,11990
	15110,17840

a) to Australia and New Zealand; b) also to Africa; c) to Europe; d) to Africa.

TO NO. AMERICA

Czech/Slovak	kHz
2200-2227	5930b,7345a
	9540a,9740b
	11990b
0030-0057	5930,7345a
	9540a
English	
0100-0157	5930,7345
0300-0357	9540,9630
	9740

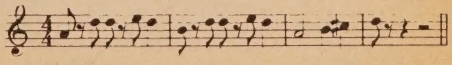
a) also to So. America; b) to So. America.

TO SO. & CE. AMERICA

Portuguese	kHz
2130-2157	5930a,7345b
	9740,11990
2230-2255	5930,7345
	9540,9740
	11990
0000-0027	5930,7345
	9540
Spanish	
2300-2357	5930,7345
	9540
0200-0257	5930,7345
0400-0500	9540,9630
	9740

a) also for Europe; b) also for Europe and Africa.

Prgrs for radio amateurs and SWLs:
To Europe: English: Wed 2000, 2130. **Spanish:** 1st Sat 1700, 2230 – **To No. America:** Fri 0100, 0300 – **To Latin America: Spanish:** 1st Sun/Mon 2300, 0200. **Portuguese:** 1st Sun 2230, 0000 – **To Africa: French:** 1st Sun 1830, 2030. In **German:** 1st Thurs 1900, 2nd Tues 1800. **ANN:** "This is Prague". F: "Ici Prague, Tchécoslovaquie". G: "Hier spricht Prag". Sp: "Aqui R. Praga, Checoslovaquia". P: "Aqui fala a R. Praga" – **INT/SIG:** The opening bars of the song "Forward Left" by J. Seidl, played on trumpets.



V. by QSL-card and letter. Rec. acc – **ALF:** 120,-Czech crowns.

DENMARK

L.T: GMT+1h – **Pr.L:** Danish – **E.C:** a/c 50, 220/380V (yes).

GENERAL DIRECTORATE OF POSTS AND TELEGRAPHS

Tietgensgade 37, DK-1530 Copenhagen V. **Cable:** Postgen. **L.P:** Dir.Gen: Poul Hansen.

RADIO DENMARK (Gov.)

ADDR: TV-Byen, DK-2860 Søborg. **Te:** (01)671233. **Cable:** Danradio. **Telex:** 2695.
L.P: Dir.Gen: Laur. Bindslov. Deputy Dir.Gen. in charge of Personnel: Erik Carlsen. Dir. Economy: Ejnar Jensen. Dir.Prgr (radio & TV): Hans Jørgen Jensen. Head of Music: M. Andersen. Head of Drama (radio): H. Pade. Head of Entertainment (radio): Kaj Bruun. Head of Press Dept: E. Trautmann. Head Foreign Rel: B. Sørensen. Head of SW-Dept: V.Aa. Skovgaard. Dir.Tec (radio): S.V. Jørgensen. Head of Prod (TV): Jens Haervig. Head of transmissions (TV): J. Brummerstedt. Head of News and Actualities (radio): J. Schleimann. Head Culture Dept (radio): J. Vedel-Petersen. Head, Children and Youth Prgr (radio & TV): Mogens Vemmer. Head Educ. Broadcasts (radio & TV): H. Engberg Pedersen.

STATIONS: Long- and Mediumwaves (P=Prgr)

	kHz	kW	P		kHz	kW	P
Kalundborg	245	150	I	Copenhagen	1430	10	III
Kalundborg	1061	60	III	Skive	1430	70	III

FM (all stereo) – *) 125/125/160 W.

Station	I	II	III	kW/W
Copenhagen	90.8	96.5	93.85	60
Hobro	94.9	96.7	92.0	0.160
Holstebro	90.2	98.5	92.9	60
Kolding		94.0		125W
Næstved	94.8	97.5	99.6	60
Rangstrup	95.1	99.9	97.2	40
Sdr. Højrup	89.0	96.8	92.6	60
Tolne	91.0	94.4	96.6	10
Vejle	94.7	102.1	90.0	*
Vejrhøj	88.4	92.0	96.1	10
Ølgod	88.7	99.0	92.3	10
Ålborg	93.1	98.1	89.7	40
Århus	88.1	95.9	91.7	40
Årsballe	94.5	99.3	90.0	25

1st Prgr: 0500(Sun 0700)-2305. **N:** 0500 (W), 0600 (W), 0700, 0800, 1102, 1730, 2300 – **Wrp:** 0745, 1050, 1700 – **Rlg:** Sun 0900, 1600, W 0550, 0730 – **Chimes** (of the Copenhagen Town Hall): 1100.
2nd Prgr: 0400(Sun 0600)-0105 relaying prgr. 3 only interrupted for reg. prgrs. and adult educational prgrs.
3rd Prgr (Musical Prgr): 0400(Sun 0600)-0105. **MW-tr's:** 0400(Sun 0600)-2110(Sat 2115, Sun 2105). **N:** hourly – **N. in English:** W 0805 – **N. in German:** W 0810 –

Reg. Prgrs (on the 2nd network):

Northjylland Radio, Ålborghallen. DK-9000 Ålborg: Ålborg 98.1, Hobro 96.7, Tolne 94.4MHz – W 0530, 0630, 1130, 1530, 1700; Sat 0830, 0910.

Radio Middle- and Westjylland, Vestergade 1, DK-7500 Holstebro: Holstebro 98.5MHz – W 0530, 0630, 1130, 1700; Sat 0830, 0910.

Eastjylland Radio, Halmstadgade 10-12, DK-8200 Århus. **N:** Århus 95.9, Vejle 102.1, Kolding 94.0MHz – W 0530, 0630, 1130, 1700; Sat 0830.

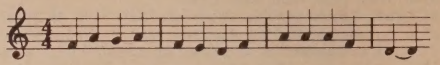
Radio South (Southjylland), H.P. Hanssens Gade 11, DK-6200 Åbenrå: Rangstrup 99.9, Ølgod 99.0MHz – W 0530, 0630, 1130, 1645.

Radio Fyn, Klosterbakken 20, DK-5000 Odense: Sdr. Højrup 96.8MHz – W 0530, 0630, 0730, 1130, 1700: Sat 0830.

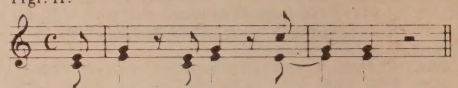
The Regional Radio Naestved, Vadestedet 1, DK-4700 Naestved: Naestved 97.5, Vejrhøj 92.0MHz – W 0530, 0630, 1130, 1700; Sat 0830.

Copenhagen Radio, Radio House, Rosenørnsallé 22, DK-1999 Copenhagen V: Copenhagen 96.5MHz – W 0530, 0630, 0710, 1130, 1700; Sat 0830.

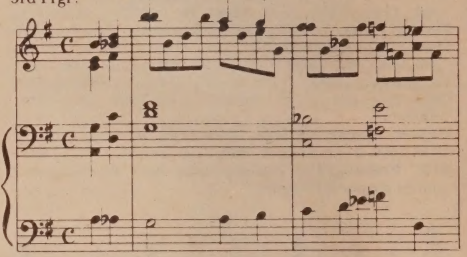
Bornholm Radio, Lille Madses Gade 18, DK-3700 Rønne: Årsballe 99.3MHz – W 0530, 0630, 1130, 1700: Sat 0830.
Special Prgrs (on 245kHz): Mon-Fri 1200-1230, 1545-1630; Sat 1200-1215.
ANN: "Danmarks Radio, Programme I" – "De lytter til P-tre" (3rd Prgr) – **INT-SIG:** Prgr. I: From an old Danish folksong.



Prgr. II:



3rd Prgr:



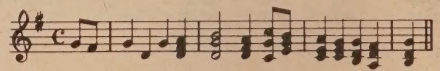
FOREIGN SERVICE

STATIONS (G.C: 12.21E/55.41N) 1×50kW tr. 9520kHz – 11895kHz – 15165kHz.
ADDR: Radio Denmark, Shortwave-Dept, Radiohouse, 1999 Copenhagen V. **Te:** (01)350647.

Times	kHz	Area	N. in Danish
0730-0815*	15165	So. Asia, Persian Gulf	0730
0900-0945	15165	Ea. Africa, Ea. Medit.	0900
1102-1152	15165	Greenland	1102
1200-1245	15165	No. America	1200
1330-1345	15165	Greenland	1330
1400-1445	15165	We. Africa, We. Medit.	1400
1600-1645	15165	No. America	1600
1730-1815	15165	Greeland	1730
1830-1915	15165	So. America	1830

*) Not Mondays.
On Sundays all programmes with exception of those beamed to Greenland have a duration of 75 mins.

INT-SIG. and ANN: All trs (Danish) preceded by repetition of first bars of a piece of Danish music by Carl Nielsen followed by announcements in English and Danish.



Message to Listeners: Radio Denmark is anxious to receive reports on prgrs. and on reception conditions from countries abroad – **V.** by QSL-card. (Obs: No verification for European countries). Rec. acc – **ALF:** Kr. 98.00 (radio).

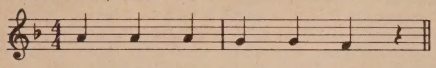
FAROE ISLANDS (Danish)

L.T: GMT – **Pr.L:** Faroese.

UTVARP FOROYA

ADDR: P.O. Box 128, Tórshavn. **Te:** 1-1380. **Telex:** 81226.
L.P: Mgr: N.J. Arge.

STATIONS: Tórshavn 584kHz 5kW – 89.85MHz 3kW. Klaksvik 94.25MHz 2kW – Suduroy 97.5MHz 2kW.
HOME SCE: Mon-Fri 0715-0915, 1200-1300(Wed 1400), 1830-2020(Thurs/Fri 2110); Sat 0715-0915, 1200-1600, 1830-2305: Sun 1400-1915. Prgr's consist of Wrp, N. from the Faroes, foreign N, lectures, music, features, radioplays, interviews, morning prayer.
ANN: "Utvarp Föroya" – **INT-SIG:** Xylofon – **V.** by letter – **ALF:** Kr. 135,- (2 studios).



FINLAND

L.T: GMT+2h – **Pr.L:** Finnish, Swedish – **E.C:** a/c 50, 220/230V (yes).

DIRECTION GENERAL OF POSTS AND TELEGRAPHS

ADDR: P.O. Box 528, Helsinki 10. **Cable:** Gentel.
L.P: Dir.Gen: O. Saloila.

OY YLEISRADIO AB (Gov.)

ADDR: Kesäkatu 2, 00260 Helsinki 26. **Te:** 441141. **Cable:** Yleisradio. **Telex:** 12.735.
L.P: Dir.Gen: E. Raatikainen. Dep.Dir.Gen.&Dir.Prgr: P. Silvola. Dir.Adm: R. Koski. Dir. of Engineering: E. Larkka. Asst.Dir.Eng: K. Ilmonen. Dir. Finance: M. Tamminen. Dir. of Radio 1: J. Mykkänen. Dir. of Radio 2: K. Savolainen. Dir of Swedish Radio & TV: Chr. Schildt. Head of Intern.Rel: V. Zilliacus.

STATIONS

Long- and Mediumwaves

	kHz	kW	P		kHz	kW	P
Lahti	254	200	A	Rovaniemi	989	10	A
Oulu	433	15	A	Vaasa	1241	50	C
Joensuu	520	1	A	Helsinki II	1412	2	C
Helsinki I	557	100	A	Turku II	1412	4	C
Mariehamn	602	10	C	Tampere	1421	1	A
Kuopio	755	20	A	Pietarsaari	1484	1	C
Ylivieska	836	10	A	Pori	1484	1	A
Turku I	962	100	A				

Number of studios: 64 (of which 30 in Helsinki).
P=Prgr. group; A=Prgr. 1; B=Prgr. 2; C=Swedish language prgr; S=stereo; D=local prgrs.

FM: A=Finnish 1st prgr; B=Finnish 2nd prgr; C=Swedish prgr – °=stereo – **Local prgr:** Espoo 90.3MHz 10kW.

Station	A	B	C	kW
Espoo	94.0	91.9°	98.8	60
Eurajoki	92.0	87.7°	99.4	30/30/3
Iisalmi	87.7	92.8		2
Inari	98.8	92.8		50
Joutseno	90.7	88.0°		30
Jyväskylä	92.5	89.9°		30
Kerimäki	95.8	99.1°		15
Kokkola	99.7	97.6		3
Koli	90.1	93.4		30
Kuopio	96.2	91.6°		50
Lahti	95.5	97.9°		50
Lapua	90.1	93.1°	95.2	60
Mikkeli	88.9	94.6°		30
Oulu	90.4	97.3°		50
Pietarsaari			90.4	10
Pihtipudas	97.0	88.6°		50
Pyhätunturi	97.6	91.0		50
Pyhävuori	98.6	91.0°	88.9	30
Rovaniemi	96.7	94.0		10
Ruka	90.7	92.8		2
Sippola	92.8	96.4°	99.5	5
Taivalkoski	89.2	91.9		45
Tammela	94.8	89.2°		5
Tammisaari			97.0	3
Tampere	90.7	93.7°	97.2	45/45/0.3
Tervola	92.6	88.6		10
Turku	94.3	98.2°	89.8	50
Utsjoki	90.7	99.4		1
Vuotso	90.1	94.7		3
Ylivieska	98.4	96.1		15
Ylläs	95.3	92.2		60
Ähtäri	91.9	94.6°		3
Åland			91.3	5

+13 low powers trs.

HOME SCE: Group A: W 0330-2130; Sun 0500-2130. **N:** W 0400, 0500, 0600, 0800, 0930, 1030, 1200, 1300, 1400, 1530, 1700, 2000, 2120. Sun 0630, 1030, 1530, 1700, 2000, 2120 – **Wrp:** 0400, 0500, 0615(Sun 0630), 1040, 1710, 2020 – **Wrp. for seas:** W 0615, 1040, 1710, 2020. Sun 1040, 1710, 2020.
N. in Group B only: 1900, 2100.
Group C (Swedish) **N:** W 0400, 0500, 0600, 0800, 0930, 1030, 1200, 1300, 1400, 1530, 1700, 2000, 2120. Sun 0630, 1030, 1700, 2000, 2120 – **Wrp:** 0400, 0500, 0615(Sun 0630), 1040, 1700, 2020 – **Wrp. for seas** as in group A.
Main Prgr: Group A: Both light and serious prgr.
Second Prgr: Group B: Mainly musical and educational prgrs.
Swedish Prgr (Group C): 0400-1600 prgr. in Swedish and music from group B. 1600-2030 prgr. in Swedish. 2030-2200 music from group B. Stereo broadc. approx. 24 hrs per week.

FOREIGN SERVICE

STATION: Pori (G.C: 21.52E/61.28N): 1×250kW, 1×100kW 2×15kW trs.

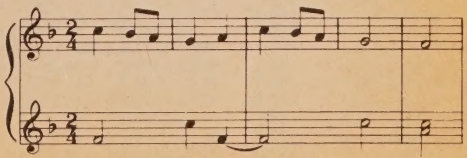
kHz	kHz	kHz	kHz	kHz
6105	9550	11755	15260	15270
6120	9720	15110	15265	

Areas: I=Europe; II=No. America; III=So. America; IV=Middle East; V=Far East; VI=Africa. D=Nov-Feb; M=March-April; J=May-Aug; S=Sept-Oct.
Freqs in bold=250kW.

Times	kHz/Beam	Area	Period	L
0330-2000	6120(230)	I	D	HS
0330-2130	6120(230)	I	M/J/S	HS
0300-0400	**6105**(300)	II	D	Fi+E
0400-0430	11755(140)	IV	all year	Fi
0600-0730	9550(234)	I		
	11755(205)	I	all year	Fi+Sw
	15270(140)	IV		
0930-1100a	9550(234)	I		E(a)
1000-1100b	11755(205)	I	all year	Fi+Sw
	15270(190)	I/VI		
1230-1400	**11755**(300)	II	D	Fi+E
	15110(305)	II	all year	Sw(c)
	15260(80)	V	M/J/S	
1430-1630	11755(300)	II	D	Fi
	11755(140)	IV	M/J/S	Sw
	15110(305)	II	all year	E
1700-1930	9720(234)	I/VI	D	Fi
	11755(170)	I/IV	all year	Sw
	15265(234)	I/VI	M/J/S	E
2000-2130	**6120**(200)	I/VI	D	
	9550(234)	I/VI	all year	Fi+E
	11755(190)	I/VI	M/J/S	
2200-2300	6120(240)	I/III/VI	D	
	9550(234)	I/III/VI	all year	Fi
	11755(240)	I/III/VI	M/J/S	
2300-2400	**11755**(300)	II	M/J/S	Fi+E

a) Sat/Sun only – b) Mon-Fri – c) Swedish Wed 1300-1330 – HS=Home Sce; Fi=Finnish; E=English; Sw=Swedish.

Prgr. in English: 1330, 1430, 1900, 2000 2330(M/J/S), 0330(D)(Sat and Sun 0930).
ANN: Finnish: "Täällä Suomen Yleisradio". Swedish: "Här är Finlands Rundradio". English: "This is Radio Finland calling" – **INT-SIG:** Based on an old Finnish folk melody.



V. by QSL-card – **PUB:** "Hear Finland" (quarterly), prgr-schedules – **ALF:** Fmk 40,- (radio only).

FRANCE

L.T: GMT+1h (Su: GMT+2h) – **Pr.L:** French – **E.C:** a/c 50, voltages variable (yes).

TELEDIFFUSION DE FRANCE (TDF)

ADDR: TDF, Siège Social, 10 rue d'Oradour sur Glane, 75732 Paris CEDEX 15. **Te:** 645 21 33.
L.P: Pres.Dir.Gen: Jean Autin. Dir.Gen: Maurice Rémy. Sec.Gen: Michel May, Gérard Mineur. Dir.Tech. Centrale(DTC): Roger Buffard. Dir. Centrale de l'Exploitation(DCE): Louis Goussot. Serv. de la Coop. Intern.(SCI): J.C. Michaud.
Télédiffusion de France is under Government authority, "seat and guarantee of the broadcasting monopoly".

RADIO FRANCE

ADDR: Société Nationale Radio France, 116 Av. du Président Kennedy, F-75786 Paris CEDEX 16. **Te:** 224 22 22.
L.P: Pres.Dir.Gen: Jacqueline Baudrier. Dir.Gen: Gabriel de Broglie. Dir. des Inf: Michel Péricard. Dir. des Orchestres et Fr.-Musique: Pierre Vozlinsky. Dir. de Fr.-Culture: Yves Jaigu. Dir. de Fr.-Inter: Pierre Wiehn. Dir. FIP: Pierre Codou, Jean Garetto. Dir. R. France Int: Albert Aycard.
Radio France is in charge of conception, realisation and programmation of radio broadcasts of France-Inter, France-Culture, France-Musique, FiP & Cie and R. France International(RFI). **No. of studios:** 49, plus 70 recording/cutting rooms.

HOME SERVICE

STATIONS

Netw: A=France-Inter, B=France-Culture, F=FiP & Cie.

Station	Netw.	kHz	kW	Station	Netw.	kHz	kW
Allouis	A	164	2000	Nice	A	1349	300
Bayonne	A	539	0.05	Lille	B	1376	300
Marseille	F	584	4	Bastia	B	1403	8
Paris	F	584	2×5	Besançon	B	1403	1
Lyon	B	602	300	Brest	B	1403	20
Marseille	B	674	600	Clermont	B	1403	20
Lyon	F	710	1	Dijon	B	1403	1
Rennes	B	710	300	Grenoble	B	1403	1
Limoges	B	791	300	Pau	B	1403	20
Nancy	B	836	200	Perpignan	A	1484	1
Paris	B	863	300	St.Quentin	F	1484	0.05
Toulouse	B	944	300	Ajaccio	B	1493	8
Bastia	A	1070	8	Bayonne	B	1493	4
Brest	A	1070	20	Tours	F	1493	0.05
Grenoble	A	1070	20	Nice	B	1554	100
Lille	A	1070	20	Nimes	A	1594	1
Montpellier	A	1070	10	Toulon	A	1594	1
Ajaccio	A	1160	8				
Strasbourg	A	1160	200				
Toulouse	A	1160	100				
Bordeaux	B	1205	100				
Marseille	B	1241	100				
Strasbourg	B	1277	300				
Nancy	A	1349	100				

FM: C=France-Inter, D=France-Culture, E=France-Musique (stereo). *=FiP & Cie. °=stereo.

Station	C	D	E	kW
Abbeville	93.1n	97.4	89.8	4
Ajaccio	92.4	97.6	88.0	5
Alençon	93.0	88.0	91.0	10
Ales	87.6e	96.1	98.6	1
Amiens	95.4	88.37	99.4	20
Angers	93.2m	91.4	97.4	8
Antisanti	98.2	91.0	94.8	1
Argenton	93.45	89.8	97.2	5
Aubusson			89.1f	6w
Aurillac	94.5	98.0	91.9	50
Autun	88.1	97.3	94.1	10
Auxerre	99.5	89.5	92.8	5
Avignon	97.4p	90.72	93.22	4
Bastia	95.9	89.2	93.9	5
Bayonne	89.2c	96.1	92.7	40
Bergerac	99.0c	94.0	97.1	50
Besançon-Montfaucon	98.7h	89.3	95.0	10
Besançon-Lomont	90.0	97.7	92.9	22
Bordeaux	89.7c	98.1	93.5	5
Bordeaux	* 96.75			0.25
Boulogne	95.5n	99.9	89.4	1
Bourges	94.9	88.5	91.8	50
Brest	93.0m	97.8	89.4	50
Briancon	91.5p	97.8	89.5	0.05
Brive	98.6f	93.6	88.7	0.2
Caen	99.6	91.53	95.6	50
Cannes	* 92.6			0.05
Carcassonne	88.3d	96.5	90.9	125
Cerdagne	97.5	99.6	93.8	0.05
Chalons/Marne	* 91.1			0.05
Chambery	93.5i	90.5	98.6	8
Chamonix	99.5i	89.0	92.9	0.05
Chartres	94.55	98.15	89.7	50
Cherbourg	94.15	89.2	92.35	1
Cherbourg	* 91.8			0.05
Clermont.-Fd.	90.4k	98.4	95.5	40
Digne	99.9p	95.0	98.1	0.1
Dijon	95.9g	93.7	99.2	10
Epinal	98.6b		89.4	10
Epinal	* 92.4			2
Etampes			91.2	15w
Forbach	96.6b	90.7	93.7	0.1
Forbach	* 98.85			0.05
Gap	98.3	88.5	95.3	5
Gex	94.4i	96.7	89.6	20
Grenoble	99.4ij	88.2	91.8	2
Gueret	94.3f	98.8	90.8	5
Hirson	94.4n	99.7	97.2	5
Le Havre	88.9	93.3	98.5	1
Le Mans	92.6m	89.0	97.0	100
Le Puy	99.3k	89.3	92.8	10
Lille	94.7n	98.0	88.7	150
Lille	* 91.0			0.25
Limoges	93.0f	89.5	97.5	150
Longwy	98.1b	88.3	91.0	5
Lyon	99.8i	88.8	92.4	50
Marseille	91.27p	99.0	94.2	50
Menton	89.6f	97.0	94.85	0.05
Menton	* 91.75			0.05
Metz	99.8b	94.5	89.7	50
Metz	* 98.5			0.05
Mezieres	95.8b	90.1	93.5	10
Modane	99.8	88.8	92.4	1w
Montpellier	89.4e	97.8	92.9	9
Montpellier	* 95.2			0.25
Moutiers	92.7	97.4	90.7	0.05
Mulhouse	95.7a	88.6	91.6	50
Nancy	96.9b	98.95	91.8	1
Nancy	* 88.7			0.25
Nantes	90.6m	94.2	98.9	50
Nantes	* 95.7			2
Nice	88.1f	97.4	94.4	0.2
Nice	* 95.7			0.05
Nimes	96.8e			
Niort	99.4f	96.4	91.1	200
Orleans	99.15	95.8	90.7	5
Paris	87.8	°93.35	97.6	100
Paris	* 90.35			12
Perpignan	92.1e	99.8	97.2	10
Pornichet(FILA)	* 97.2			0.05
Porto Vecchio	96.8	90.8	98.9	1
Reims	96.8b	98.85	89.2	150
Reims	* 95.1			0.05
Rennes	93.5m	98.3	89.9	100
Rouen	96.5	94.0	92.0	100
Saint-Etienne	88.05	91.6	97.1	1
Saint-Flour	97.6k	87.8	91.1	0.5
St. Martin de Belleville	95.9	93.7	98.4	0.1
St.-Raphaël	96.3f	88.7	99.6	10
Sarrebourg	93.1b	99.4	90.3	10
Sens	96.25	98.5	93.8	10
Strasbourg	97.3a	87.7	95.0	50
Toulon	94.9	89.6	97.1	1
Toulouse	87.9d	95.7	91.5	10
Toulouse	* 98.5			0.25
Tours	99.9	97.8	92.2	10
Tours	* 98.7			0.08
Troyes	95.3b	97.9	91.4	50
Tulle			95.2	15w

Station	C	D	E	(ERP)
Vannes	88.6m	96.0	91.8	5

a)-g)=refer to station listings under FR3-network.

D.PRGR. France-Inter: Network A on MW, C on FM: Allouis 164, Strasbourg 1160 and Nice 1554kHz: 24h, exc. Thurs 0005-0358. Other MW trs: 0428-2100; FM trs: 0600-2300(Thurs 24h). **SW relays:** To Europe: 6175kHz 0700-2110; To No. Africa: 3965kHz 1800-2110; To No. & Ce. America: 15265, 15440, 17780kHz 1200-1715. **N:** on the h. and 0430, 0530, 0630, 0730, 1130, 1730. **Wrp:** 0720, 1850.

France-Culture: Network B on MW 0458(Sun 0558)-2300. D on FM: 0600-2300. Educ. & Cultural prgrs W approx. 1500-1800, Wed 0800-1000. **N:** 0600, 0630, 0730, 0800, 1130, 1625, 1800, 2255. **Wrp:** 0805, 1130, 1830, 2255 – **For Foreign Workers:** African dialects: Wed/Thurs 0520-0530. Arabic: W 0520-0530. Cambodian: Every 2nd Sat 0550-0600. Italian: Mon-Fri 0550-0600. Lao: Every 2nd Sat 0550-0600. Portuguese: W 0430-0600. Serbo-Croat: W 0530-0540. Spanish: W 0540-0550. Turkish: Mon/Tues/Sat 0520-0530. Vietnamese: Fri 0520-0530. Polish on Lille 1376kHz Mon-Fri 1800-1830.

France-Musique: (Network E in stereo): Mon 0558-2300, Tues-Sun 0558-0100. **N:** 0600, 0630, 0800, 1130, 1625, 1800, 2255.

FIP & CIE (France-Inter-Paris et-Province): Network F on MW+FM: 0500-1900(Sat/Sun 1915). **Prgrs** are music interrupted by local and national news. **R. Sorbonne:** Paris 962kHz 2×4kW and Paris 90.35MHz: Sat 0900-1100, 1330-1700, Sun 0800-1700. **Prgrs** consist of university lectures.

France-Regions 3 (Regional Prgrs)
ADDR: Société Nationale FR3, 116 Av. du Pres. Kennedy, 75016 Paris. **Te:** 224 20 54.
L.P: Pres.Dir.Gen: Claude Contamine. Dir.Nat.Prgrs: Maurice Cazeneuve. Dir.Reg.Sts: Claude Lemoine. Dir. Overseas Sts: René Han. Dir.Adm.&Finance: Noël Sanviti.
France-Regions 3 is responsible of 11 regional radio prgrs and sts, plus 9 overseas sts. Regional prgrs in minority languages (Britton, Alsacian etc) are also broadcast on MW and FM by Rennes, Strasbourg, Marseilles and Toulouse, generally Sun 1300-1400. **Schedule:** Network B (MW): 0615-0700, 1105-1130. Network C (FM): 0615-0630, 0800-1130, 1700-1800(Sun).

Regional Centres
Paris Centre Nord: 21 rue Barbès, 92120 Montrouge. Dir: Pierre Gilles – **Est (East):** 43 route de Mirecourt, 54042 Nancy CEDEX. Dir: André Tartary – **Centre Est (Centre East):** 44 Bd. Vivier Merle, 69439 Lyon CEDEX 3. Dir: Jean Guillermin – **Sud Est (South East):** 14 Bd. Edouard Herriot, 13285 Marseille CEDEX 2. Dir: Roger Morenne – **Sud Ouest (Southwest):** Chemin de la Cépière, 31076 Toulouse CEDEX. Dir: André Fatoux – **Ouest (West):** 9 Avenue Janvier, 35031 Rennes CEDEX. Dir: Joël Lagadec – **Overseas Prgrs:** Dir: Bernard Guyot.

STATIONS
a) **FR3-Alsace,** Place de Bordeaux, 67011 Strasbourg CEDEX – Dir: Pierre Roubaud.
b) **FR3-Champagne Lorraine,** 43 route de Mirecourt Vandoeuvre, 54042 Nancy CEDEX – Dir: Jean Pierre Lannes.
c) **FR3-Aquitaine,** 32-34 rue Ulysse Gayon, 33075 Bordeaux CEDEX – Dir: Jacques Sol.
d) **FR3-Midi Pyrénés,** Toulouse centre: Chemin de la Cépière, 31076 Toulouse CEDEX – Dir: Francis Anguerra.
e) **FR3-Midi Pyrénés,** Montpellier centre: La Colline, 34000 Montpellier.
f) **FR3-Limousin Poitou Charente** (FR3 Limoges Centre Ouest), 6 Bd. Victor Hugo, 87031 Limoges CEDEX – Dir: Yvon Desiacques.
g) **FR3-Bourgogne Franche Comté,** Dijon centre: 2 rue Hoche, BP 96, 21003 Dijon CEDEX – Dir: René Mahé.
h) **FR3-Bourgogne Franche Comté,** Besançon centre.
i) **FR3-Rhône Alpes Auvergne,** Lyon centre: 14 rue des Cuirassiers, 69439 Lyon CEDEX 3 – Dir: André Celarié.
j) **FR3-Rhône Alpes Auvergne,** Grenoble centre.
k) **FR3-Rhône Auvergne,** Clermont Ferrand centre: 137 Av. de Royat, 63400 Chamalières.
m) **FR3-Bretagne Pays de la Loire,** 9 Avenue Janvier, 35031 Rennes CEDEX – Dir: Bernard Griveau.
n) **FR3-Nord Pas de Calais Picardie** (FR3-Nord Picardié), 36 Bd. de la Liberté, 59024 Lille CEDEX – Dir: Fernand le Réec.
p) **FR3-Provence Côte d'Azur,** Marseille centre: 2 rue Ray Grassi, 13285 Marseille CEDEX 2 – Dir: Robert Bellair.
q) **FR3-Provence Côte d'Azur,** Nice centre: Domaine de la Brague, 06601 Antibs.

ANN: "Içi FR3- (name of region)".

FOREIGN SERVICE
Radio France International
ADDR: Chaîne Sud: R. France Int, Service Afrique, BP 9516, 75762 Paris Cédex 16. **Te:** 224 27 05 – **English prgr:** R. France Int, BP 9516, 75762 Paris Cédex 16. **Te:** 224 27 05 – **German prgr:** R. France Int, émissions en langue allemande, Maison de Radio France, 116 avenue du Président Kennedy, Pièce 5672, 75686 Paris Cédex 16. **Te:** 224 27 50 – **Polish prgr** (see France-Culture) R. France Int, Emission en langue polonaise, Pièce 5546, 116 av. du Président Kennedy, 75786 Paris Cédex 16. **Te:** 224 30 64 – **Spanish prgr:** R. France Int, émissions en langue espagnole, Maison de Radio France, 116 av. du Président Kennedy, Pièce 5548, 75786 Paris Cédex 16. **Te:** 224 30 74 – **Cooperation Radiophonique prgr:** R. France Int, Programme de Coopération, Pièce 5531, 116 av. du Président Kennedy, 75016 Paris. **Te:** 224 39 19.

Stations: MW: Toulouse 1241kHz 100kW, Strasbourg 1277kHz 300kW – **SW:** Allouis (G.C: 02.00E/47.00N): 1×4kW tx, 4×100kW txs; 16 antennas. Issoudun (G.C: 02.13E/47.10N): 8×100kW txs, 8×500kW txs; 71 antennas. *)=4kW; freqs in bold: 500kW, others 100kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
*3965	7135	9560	**11745**	15135	**15315**	17800
5955	7165	**9585**	11745	**15155**	15410	**17810**
5990	**7255**	**9660**	11845	15200	**15425**	**17850**
6010	7285	**9695**	**11890**	15210	15440	17860
6040	**9505**	9715	11890	15260	**17720**	17865
6045	9505	11705	**11930**	**15265**	17775	**21580**
6145	**9525**	11730	11930	**15300**	17780	21620
6175	9535	**11735**	11965	15315	**17785**	**21675**
						21730

TO EUROPE: German 1800-1900 on 1277, 6010, 6145kHz+Berlin 93.6MHz – **Polish** (Mon-Fri) 1800-1830 on 1376kHz – **Spanish** 2200-2300 on 1241, 6040kHz.

TO AFRICA: English (Paris Calling Africa): 1700-1800 on 7165, 7285, 9505, 9585, 9695, 11705, 11890, 11930, 15425kHz.
Chaîne Sud in French: 0400-1700, 1800-2130.

Beam 1 (Dakar 208°)

kHz	Times
9525	0600-0900
9585	1700-2130
11735	0800-1000
11930	1600-1800
15135	1000-1700

Beam 2 (Abidjan 185°)

9660	0600-0800
9695	1700-2130
11745	0700-0900
11890	1600-1900
15155	0800-1700
15425	1700-1900
17720	1000-1500

Beam 3 (Brazzaville 162°)

9505	1700-2130
9585	0500-0700
11705	0600-0800
	1600-2030
15300	0700-1700
17850	1000-1600
21580	1200-1500

Beam 4 (Tananarive 138°)

kHz	Times
9505	1700-2030
9535	0400-0600
11890	0500-0600
11965	1600-1900
15135	0600-0800
15210	1500-1700
17800	0600-0800
	1400-1500
21620	0800-1500

Beam 5 (Cairo 120°)

5955	1700-2030
7135	0400-0500
9560	0400-0600
9715	1600-2030
11730	0500-0700
11930	1500-1700
15135	0700-0900
15200	1400-1600
17860	1400-1500
17865	0900-1400

To Morocco (206°)

kHz	Times
5955	1800-2130
7135	0600-0800
11730	1000-1600

To Algeria (178°)

5990	0500-0800
7165	1600-1800
11745	0900-1600

To Tunisia (155°)

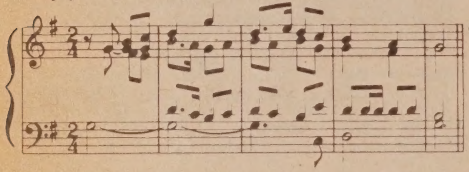
kHz	Times
5955	1800-2130
6045	0500-0700
7135	0500-0800
7285	1600-1800
11845	0800-1600

To the French Antarctic Teams

21730	0745-0845

To Central America and East Coast North America: 1200-1715(beams 273°/284°/295°) on 15265/15440/17780kHz. **N. in French:** W 0400, 0415, 0430, 0445, 0515, 0545, 0600, 0645, 0700, 0745, 0800, 0900, 1000, 1215, 1300, 1400, 1500, 1800, 1900, 2000, 2120. **N. in English:** 1704 – "Courrier Technique des Auditeurs": Sat 1315.

Co-Operation Radiophonique
Transmissions for rebroadcasting in African countries. This sce is independent of R. France Int. although some of the frequencies are extracted from that sce: **In French:** W 0915-0945 on 17720, 17795, 17810, 21580, 21675, 21730kHz. **In French and (irr) English:** W 1515-1545 on 15315, 17720, 17755, 17785, 21580, 21675kHz.
ANN: "Içi Radio France Internationale" or "Içi Paris, Radio France Internationale" – **INT-SIG:** Popular song: "Nous n'irons plus au bois", plus specific int.sig. of the RFI prgrs.



V. by QSL-card – **ALF:** Radio: Frcs 30,- –**F.PL:** By the end of 1976: Portuguese prgrs to Portugal; 2 MW txs on Corsica – 1977: relay of France-Inter to East Europe – 1978: Nice 600kW.

GERMAN FEDERAL REPUBLIC

L.T: GMT+1h – **Pr.L:** German – **EC:** a/c 50, 220/380V (yes).

BUNDESMINISTERIUM FÜR DAS POST UND FERNMELDEWESEN, Adenauerallé 81, D-53 Bonn. **Cable:** Gentelfreq.

Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland (ARD).
Broadcasting (Radio and Television): Chmn: Intendant Werner Hess, HR, 6 Frankfurt/Main, Bertramstr. 8 – **Permanent Office:** Ass. Chr. Strupp, 6 Frankfurt/Main, Bertramstrasse 8 – **Members:** Bayerischer, Hessischer,, Norddeutscher, Saarländischer, Süddeutscher und Westdeutscher Rundfunk, Radio Bremen, Sender Freies Berlin, Südwestfunk, Deutschlandfunk, Deutsche Welle and as guest partaker at meetings: RIAS Berlin.
ALF: DM 126.00 (Radio only DM 36,00).

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR: 8 München 2, Rundfunkplatz 1. **Cable:** Bayernfunk. **Te:** 59001 – **L.P:** Intendant: Reinhold Vöth. Prgr.Dir: G. Lehner. Dir.Adm: O. Maier. Dir.Tec: F. Müller-Römer.

HOME SERVICE

Stations	kHz	kW	Stations	kHz	kW
Hof	520	0.2	Nürnberg	800	*
Passau	520	0.2	München	1602	**
Würzburg	520	0.2			

*) Day 50kW, night 100kW; **) Day 185kW, night 370kW.

Shortwave (G.C: 11.45E/48.15N): DMR24 6085kHz 10kW; W 0430-2310; Sat 0430-2400; Sun 0500-2400.
FM:

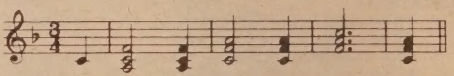
Station	I	II	III	kW
Aschaffenburg	95.6	88.4	93.4	25
Bad Reichenh.	92.8	99.5		0.3
Bamberg	94.8	89.6	99.8	6/6/1.5
Berchtesgaden	87.8	91.2		0.3
Brotjacklriegel	92.1	96.5	94.4	100
Büttelberg/ Frankenhöhe	99.3	88.2		10
Coburg	93.5	88.3		2.4
Dillberg	88.9	92.3	97.9	12-25
Dillberg		87.6°		
Garmisch Partenk.	93.5	89.2		0.5
Gelbelsee		90.5		25
Grünten/ Allgäu	90.7	88.7	95.8°	100
Herzogstand	88.1	97.0		0.1
Hohe Linie	95.0	93.0	99.6	25
Hohenpeissenb.		94.2		8
Hoher Bogen	96.8	91.6		20
Hühnerberg	91.9		99.5	6/3
Kreuzberg/Rhön	98.3	93.1	96.3	100
Landshut	90.2	97.8		0.1
Lindau	88.1	92.0	94.0°	0.4
München	91.3	88.4	97.3	6/6/15
München		89.95°		15
Ochsenkopf/ Fichtelg.	90.7	96.0	99.4	100
Ochsenkopf		88.0°		25
Passau		93.2		0.3
Reit i. Winkl	91.0	87.9		0.1
Tegernseer Tal	94.1	87.7	97.9	0.5/0.5/0.3
Traunstein Hb.	98.0		95.9	2
Wendelstein	93.7	89.5	98.5	100
Würzburg	90.9	89.0	97.6	2

°For Foreign Workers.

FIRST PRGR (on all mw's and FM-I): W 0430-2310, Sat 0430-2400, Sun 0500-2400.
N.Wrp: 0500, 0600, 0700, 1100, 1200, 1400, 1600, 1700, 1800, 2100, 2200, 2300. Sun 0600, 0700, 1200, 1600, 1800, 2100, 2200, 2300 – **"Cronik des Tages":** W 1630.
Request Prgr: Wed 1810.
Night Prgr: W 2310(Sat/Sun 0000)-0420 on all mw st's (exc 800kHz) and FM-I.
N: 0000, 0100, 0200, 0300, 0400.

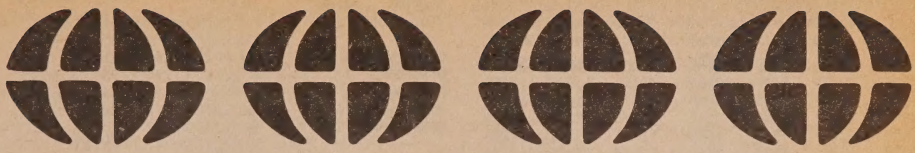
SECOND PRGR: D 0430-2312 (on all FM-II).
N: W 0500, 0600, 0700, 1100, 1700, 1900, 2100, 2300; Sun 0600, 1105, 1900, 2100, 2300 — **N. in English, French, Italian:** 0900.

THIRD PRGR: 0430-2300 (on all FM-III).
For foreign workers: 1800 Italian, 1840 Spanish, 1920 Greek, 2000 Turkish, 2040 Serbo-Croat.
ANN: "Hier ist der Bayerische Rundfunk". E: "This is der Bayerische Rundfunk" – **V.** by QSL-card or letter.
INT-SIG:



PUB: "Pressedienst" (weekly) – **AD:** Mon-Fri 0525-0600, 1230-1315; Sat 0525-0600; 0645-0700.

DEUTSCHE WELLE (Anstalt des öffentlichen Rechts)
ADDR: Bonner Str. 211, P.O. Box 10 04 44, 5 Kön 1. **Te:** 20301. **Telex:** 888485.
L.P: Intendant: Walter Steigner. Chief Editor: Hans Dieter Jaene. Dir. Cultural Prgrs: C. von Chmielewski. Dir.Tec: G. Roessler. Dir.Adm: Dr. Heinz Fellhauer Press and Information: G. Hüebner. DX-Editor: G.G. Thiele.
STATIONS: Jülich (G.C: 06.22E/50.57N) 9×100kW trs; Wertachtal (G.C: 10.41E/48.05N) 8×500kW trs; Kigali-Rwanda (G.C: 30.07E/01.58S) 2×250kW trs, and over



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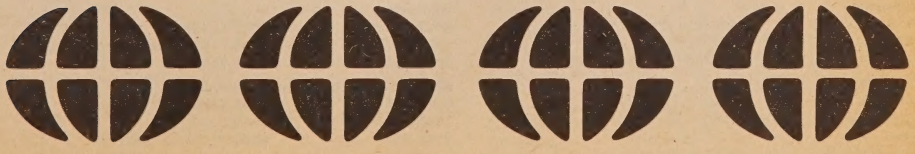


2×250kW trs at Sines/Portugal (G.C: 08.45W/37.57N): Malta (G.C: 14.34E/35.50N) 8×250kW SW-txs and 1×600kW MW-tx. Antigua (G.C: 61.48W/17.06N): 2×250kW SW-trs.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3995	6120	7210	9615	11765	11965	17780
5960	6130	7225	9620	11775	11970	17800
5995	6145	7235	9640	11785	15135	17825
6000	6160	7265	9650	11795	15185	17845
6010	6185	7275	9655	11810	15225	17875
6025	7105	7285	9680	11850	15245	21500
6040	7130	9545	9690	11865	15275	21540
6065	7145	9565	9700	11905	15320	21560
6075	7150	9590	9735	11920	15410	21600
6085	7160	9605	9760	11925	17715	21650
6100	7175	9610	9765	11945	17765	

OVERSEAS SERVICE

Abbreviations: I=Ea. Asia/Australia/New Zealand; II=So. Asia; III=No. Africa/M. East; IV=Europe; V=Africa; VI=We. Africa; VII=So. America (East); VIII=No. America (East); IX=C. America; X=No. America (West); XI=East Europe; XII= So. Europe.

GERMAN PROGRAMMES

M=Malta; K=Kigali; A=Antigua.

H. of tr.	Area	kHz
0200-0350	VIII/IX/X	11795(M)
0200-0430	VIII/IX/X	6100(M),9735(M)
0200-0550	VIII/IX/X	3995,6085(A),6145,9735
0330-0550	VIII/IX/X	6085,9605
0400-0520	VIII/IX	9545(A)
0600-0620	V	9765,11945,15320
0600-0950	I	6100(A),7285,9690(A),9735, 11795,17845,21560
0600-0950	VII	6100(A),6145(A),9690(A)
0600-0950	IV	6075,9545
1000-1350	I	9615,11795,15225
1000-1350	IV	6075,9545
1200-1220	VII	11810(A),11865,11970(A), 15185(A),15275,17845
1330-1350	VIII/X	9605(A),11810(A),11865, 11970(A),15245,17800
1400-1750	II/III	9655(M),11765,11795
1400-1750	IV	6075,9545
1800-2150	V/VI	3995,6160(K),7175,9640, 9735(K),11765,11795
2200-0150	VII/VIII	3995,6145,9680(A),9700, 9735,11795(K),15410(K)
2300-2320	I	6065,7235,9620

N: 0700, 0800, 0900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2030, 2130, 2230, 2300, 0000, 0100, 0200, 0300, 0400, 0500, 0600 – **Comm:** after first N – **"Thema d. Tages":** after last N; **"Wie wir leben":** Sun – **"Unter uns gesagt":** Thurs – **DX-Prgr:** Every second Sat 0840, 1040, 1240, 1440, 1740, 1940, 2210, 0040, 0140, 0340, 0540.

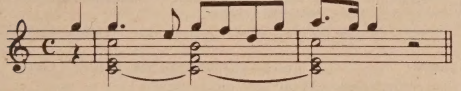
FOREIGN LANGUAGE PROGRAMMES

M=Malta; K=Kigali; A=Antigua; S=Sines.

Amharic	Area	kHz
1415-1500	V	11965(K),15410(K),17825,21600
Arabic		
0400-0550	III	6025(M),6075,7235,9640,11795
1400-1450	III	7285,9765(M),11785(M),15225
1900-2055	III	6145(M),7105,7265(M),9545,9650
Bengali		
0300-0120	II	6065,7210,7285,9690
0700-0750	II	15245,17825,21650
Bulgarian		
0415-0445	XI	6010(S),7285(S),9650(S)
1545-1645	XI	11865,15245
2130-2200	XI	6000(S),7285(S),9650(S)
Czech/Slovak		
0530-0600	XI	6010(S),7130(S)
1100-1150	XI	6065,6145,7130
1830-1915	XI	7130(S),9610(S)
2030-2115	XI	7285(S),9610(S)
Dari		
0840-0900	III	11850,15245,15320,17825,21650
English	**Area**	**kHz**
0130-0150	VIII	6010,6040(A),6075,6100(M), 9565(M),9590(A),9605,11865(M)
0120-0220	II	6065,7210,7285,9690
0430-0515	V	6065,7150,7225(K),9565(K),9765
0530-0550	X	5960(A),6100,6185,9545,9760(A)
0600-0630	VI	9615,9700,11765,11905,15275
0930-1030	I	9650,11850,15275,17715, 17780,17825(K),21540(K)
1045-1115	V	11785(K),15410(K),17765, 17875,21500,21600
1200-1245	VI	15410(K),17765(K),17875,21600
1300-1320	VIII	9605(A),11810(A),11970
1715-1745	V	7285(K),9735(K),11810,11850
1720-1750	II	7160,9590(M),11785,11925(M)
1930-2000	VI	9765,11905
2100-2200	I	7130,9765
French		
0515-0545	V	6065,7150,7225(K),9565(K),9765
0700-0805	VI	9615,9700,11765,11905,15275
1315-1400	VI	15410(K),17765(K),17845,21600
1515-1615	V	7285(K),9735(K),11810,11850
2000-2020	VI	9765,11905
Greek		
1900-2000	XII	6075,7235
Hausa		
0630-0700	VI	9615,9700,11765,11905,15275
1245-1315	VI	15410(K),17765(K),17875,21600
1900-1930	VI	9765,11905
Hindi (Sanskrit twice monthly).		
1540-1630	II	7160,9590(M),11785,11925(M)
Hungarian		
1200-1230	XI	6065,6145,7130
1930-2030	XI	7285,9610
Indonesian		
1240-1350	I/II	11850,11920(M),15185, 17825(M),21650(M)
Japanese		
1115-1215	I	9605,9650(M),11765(M),15135(M)
Mahgreb		
2055-2120	III	6145(M),7105,7265(M),9545,9650
Mandarin		
1230-1340	I	9650,11765,15320
Persian		
1000-1050	III	15135,15245,17845,21650
1630-1720	III	7130,9610,11775
Polish		
0600-0630	XI	6010(S),7130(S)
1245-1320	XI	6065,7130
1730-1830	XI	7130(S),9610(S)
Portuguese		
2130-2300	VIII/IX	6075,6100(M),9545,9590(A),
0030-0105	VIII/IX	9610(M),11810,11865(M)
1000-1035	VII	5995(A),6145(A),9640(A)
1405-1450	XII	9610,11865,11905
2030-2050	V	7150,9765,11905
2205-2255	XII	6120,7175,7235
Pushto		
0900-0920	III	11850,15245,15320,17825,21650
Russian		
0400-0435	XI	6130,7130,7275
1520-1620	XI	9610,11905,15185
1745-1850	XI	7145,9765,11850
Romanian		
0445-0515	XI	6010(S),7285(S)
1500-1530	XI	6185,7160,9765
1800-1850	XI	6075,7285
Serbo-Croat/Macedonian/Slovene		
0800-0835	XI	5995,6130,7130,7235
1400-1510	XI	6130,7130,7175
2200-2230	XI	6000(S),7285(S),9650(S)
Spanish		
0230-0350	VIII/IX	6075,6130,9545,9640(A), 11765,11865

Spanish	Area	kHz
1000-1130	VII	9735(A),6100(A),9590(A)
1815-1845	XII	6120,7235
2015-2115	XII	6075,6120,7235
2300-0030	VII/IX	6075,6100(M),9545,9590(A), 9610(M),11810,11865(M)
Swahili		
0330-0430	V	6065,7150,7225(K),9565(K),9765
1115-1145	V	11785(K),15410(K),17765, 17875,21500,21600
1615-1715	V	7285(K),9735(K),11810,11850
Turkish		
0445-0520	III/XII	6100(M),6130,7130,7275(M),9650
1800-1850	III/XII	6065,7160(M),7275,9650(M)
Urdu		
1630-1720	II	7160,9590(M),11785,11925

N: 2 mins after beginning of each transmission.
DX-PRGR: German/English: 2nd Sat of the month (Times: see German prgr); In Japanese: Tues the following week at 1140; In Spanish: 3rd Sun of the month.
ANN: G: "Hier ist die Deutsche Welle". E: "This is R. Deutsche Welle, the Voice of Germany". F: "Ici la Voix de l'Allemagne". Sp: "Habla la Voz de Alemania". P: "Esta é Voz de Alemanha" – **INT-SIG:** Motif from "Fidelio" by Beethoven. "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card. Rec. acc. – **PUB:** Monthly prgr. sched. free.

DEUTSCHLANDFUNK
(Gemeinnützige Anstalt des öffentlichen Rechts)

Purpose: Veranstaltung von Rundfunksendungen für Deutschland und das europäische Ausland, die ein umfassendes Bild Deutschlands vermitteln.
ADDR: 5 Köln 51, Lindenallee 7. **Te:** 37031. **Telex:** 0888-1261.
L.P: Dir.Gen: Richard Becker. Dir.Actual Prgr: B. Wördehoff. Dir.Cultural Prgr: P. Kliemann. Dir.European Prgr: Dr. J. Reiss. Dir.Prgrbetrieb u. Sendeleitung: E. Imelmann. Verwaltungsdirektor and Justitiar: K. Prissok. Dir. of Engineering: W. Hinz. Chief Press Dept: Dipl.Pol. H. Rülke. Head, English Section: H.P.W. Weymar.

STATIONS	kHz	kW		kHz	kW
Donebach	151	250a	Königslutter	755	200c
Königslutter	548	800/400	Neumünster	1268	600
Bad Dürrheim	548	100/30	Mainflingen	1538	350/700
Ravensburg	755	100/5			

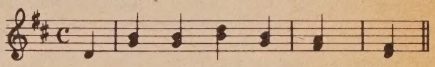
a) screened towards Brasov; c) daytime only.

HOME SERVICE in German: 24h.
N: Every h on the h 0400-0300, also at 0330, 0430, 0530, 0730, 2030.
Shipping Forecasts: 0540, 1140(on 1268kHz only); 0005(on 1268/1538kHz only).
"Music and Information": Mon-Fri 0405, 0505, 0615 – "German Pressreview": W 0605, 0805 – "Das Wochenendjournal": Sat 0615, 0640, 0710 – "Aus Ostberliner Zeitungen": W 0635 – "Interview der Woche": Sun 1005 – "Aus der Landwirtschaft": W 1050 – "Informationen am Mittag": W 1105, 1210 – "International Pressreview": W 1130 – "N. aus Kultur u. Wissenschaft": W 1305 – "Aus Wirtschaft und Politik": Mon-Fri 1610 – "Aus Gesellschaft und Politik": Sat 1610 – "Germany and the World": Mon-Fri 1705, Sun 1610 – "Politisches Feature": Tues 1915 – "Zur Diskussion": Fri 1915 – "Themen des Tages": 1905 – "Themen der Zeit": 2040 – "Morgenandachten": W 0535 – "Wir erinnern": W 0730 – "Aus Technik und aus Medizin": Wed 0905 – "Aus dem täglichen Leben": W 1005 – "Kultur und Wissenschaft": Tues 1405, Wed 1915 – Politische Bücher": Thurs 1445 – "Kultur heute": 1810 – "Kongressbericht": Mon 2105.

FOREIGN SERVICE

Czech	kHz	Danish	kHz
1930-2000	1538	1930-2000	1268
Dutch	**kHz**	**Norwegian**	**kHz**
1810-1840	1268	2000-2030	1268
English		**Polish**	
1840-1930	1268	1900-1930	1538
French		**Rumanian***	
1730-1745	1538	2030-2100	1538
1830-1900	1538	**Serbo-Croat***	
Hungarian		2000-2030	1538
2100-2130	1538	**Swedish**	
Italian		2030-2100	1268
2130-2200	1538	*) Programme produced by DW.	

German Language Course
On 1268kHz: 1745-1800 (Mon Danish, Tues Dutch, Wed English,Thurs Norwegian, Fri Dutch, Sat English).
On 1538kHz: 1745-1800 (Mon Slovak, Tues Rumanian, Wed Hungarian, Thurs Polish, Fri French, Sat Serbian).
DX-PRGR: MW 1268kHz: Swedish Wed, Sat 2045(weekly), Norwegian Tues 2015(weekly), English (DX-Circle): Wed 1900(weekly), Danish Fri 1945(weekly), Dutch 3rd Mon 1825.
ANN: "Hier ist der Deutschlandfunk" – **INT-SIG:** "Du Land voll Lieb und Leben" from the folksong "Ich hab' mich ergeben" (played on Celeste).



EUROPE NO. 1 (Comm.)

ADDR: Europäische Rundfunk und Fernseh AG, Europe No. 1, 6600 Saarbrücken, P.O. Box 301. **Te:** 31301.
L.P: Mgr: F. Fuvelier. **For Programmes:** Télécompagnie 26 bis, Rue Francois Ier, Paris 8è. **Cable:** Euradio.
Te: 256-9000 – **For Advertisements:** Regie No. 1, 28, Rue Francois Ier, Paris 8è.
STATION: Felsberg 180kHz 2000kW.
HOME SCE. in French: 0458(Sun 0628)-0105. **N:** 0500, 0530, 0600, 0630, 0700, 0730, 0800, 0830, 0900, 1000, 1100, 1200, 1230, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2230, 2300, 2400, 0100.
ANN: F: "Ici Europe No. 1" – **V.** by QSL-card. Re. to Europe No. 1, 663 Saarlouis, P.O. Box 1363, Germany.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR: 6000 Frankfurt (Main) 1, Postfach 3111, Bertramstr. 8. **Cable:** Hessfunk. **Te:** 1551. **Telex:** 0411127.
L.P: Intendant: W. Hess. Dir.Adm: Dr. A. Jerger. Chief Legal Adviser and staff: W. Lehr. Publicity: R. Weigand. Head of Press Dept: K. Seibt. Dir.Prgr (Radio): Dr. H. Wicht. Dir.Prgr. (TV): H. Otto Grünefeldt. Dir.Tec: Dr. Rolf Thiele. Chief Editor (radio), Pol. and N: F.F. Sackenheim. Culture: Dr. U. Schultz. Educ: Prof. Dr. G. Kadelbach. Music: H. Enke. Entertainment: Hanns Verres.
STATIONS: Prgr. I: Frankfurt 593kHz 320/950kW d – Meissner 593kHz 40/250kW d.
The st's on 593kHz are screened towards Sofia and Sundsvall. Nightpower for Frankfurt 593kHz is 400kW (omnidirectional).

FM	I	II	III	FW°	kW
Biedenkopf	91.0	99.6	87.6	87.6	95
Feldberg	94.4	96.7	89.3		80
Frankfurt				90.4	
Hardberg	90.6	95.3	92.65	92.65	20
Kassel				93.7	
Rimberg	91.25	95.0	97.7	91.9	30
Meissner	99.0	95.5	89.5		90
Wiesbaden				97.2	
Würzberg	88.1	97.4	89.75		1

FW=For Foreign Workers, in Italian, Turkish, Spanish, Greek, Serbo-Croat. °=Low power network (0.05-1kW).
HOME SCE: Three prgr's day and night. The night prgr. at 2310-0500 on 593kHz (Frankfurt and Meissner) and FM-I – **N:** Every h on the h – **Wrp:** After N.
Third Prgr: 24h service for the traffic in the Fed. Rep. of Germany.
ANN: "Hier ist der Hessische Rundfunk" – **INT-SIG:** Electronic music – **V.** by QSL-card – **PUB:** Prgr. Sched. press releases.

NORDDEUTSCHER RUNDFUNK
(Anstalt des öffentlichen Rechts)

ADDR: Hamburg 13, Rothenbaumchaussee 132/134. **Cable:** Nordfunk. **Te:** 4131. **Telex:** 0219891. Funkhaus Hannover: Rudolf-von-Bennigsen-Ufer 22; Funkhaus Kiel: Wall 74.
Studios: Flensburg, Friedrich/Ebert/Str. 1; Oldenburg i. O: Adolf-Grimme Str. 30; Berlin: Berlin 33, Hubertusallee 26; Büro Braunschweig, Steinweg-Passage 42A; Büro Osnabrück, Am Markt 8; Bonner Vertretung: Bonn, Dahlmanstr. 14.
L.P: Intendant: Martin Neuffer. Deputy: Dietrich Schwarzkopf. Dir.Prgr. (Radio): Wolfgang Jäger. Dir.Prgr. (TV): Friedrich Wilhelm Räuker. Financial Dir: Günter Huckschlag. Dir.Tec: Horst A.C. Krieger. Justitiar: Dr. Karl-Heinz Grossmann. Prod.Dir: Heinz Günter Sass.

HOME SERVICE

Mediumwave

Station	kHz	kW	Station	kHz	kW
Hannover	520	20	Flensburg	701	5/2
Aurich	701	2	Kiel	827	0.5
Lingen	701	2	Hamburg	971	300

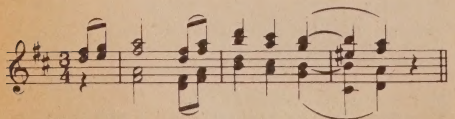
FM

Station	I	II	III	kW
Aurich	90.05	98.15	95.8	25
Bungsberg	89.9	91.9	97.8	4.5
Cuxhaven		91.65	94.7	0.3
Dannenberg	91.2	96.4	93.3	15/15/5
Flensburg	96.05	98.2	89.6	3/15/15
Göttingen	88.55	96.1	99.9	1.2/2/1
Hamburg	90.3	87.6	99.2	80
Hannover	90.9	96.2	98.7	3
Harz	89.9	92.1	98.0	100
Heide	90.5	96.3	99.4	15
Kiel	91.3	98.3	94.5	3
Lingen	92.8	97.8	90.2	15
Lübeck	93.1	90.9	95.7	0.06
Osnabrück	92.4	89.2	98.8	2
Steinkimmen	91.1	99.8	94.4	70
Visselhövede	91.8	95.9	98.4	3

FIRST PRGR: 0455-2315.
Night Prgr. on 971kHz (Hamburg) and all FM-I at 2315-0455.
N: 0000, 0100, 0200, 0300, 0400.
N.Wrp: 0500(W), 0600, 0700, 0800, 0900(W), 1000(W), 1100(W), 1200, 1300(Mon-Fri), 1400, 1500(Mon-Fri), 1600, 1700(Mon-Fri), 1800, 2100, 2200, 2300.
Rlg: Sun 0900, W 0555.

NDR 2: 0458(Sun 0558)-2300 (on all FM-II).
N: 0530(W), 0630(W), 0730, 0830(W), 0930(W), 1030, 1130(W), 1230, 1330(Mon-Fri), 1430, 1530(Mon-Fri), 1630, 1730, 1830, 2030, 2130(Mon-Fri), 2230.
Rlg: W 0505, Mon-Fri 0735.

NDR 3: 0555-1915; Sun 0700-1915 (on all FM-III).
3rd Prgr: D 1915-2300.
Prgr. for Foreign workers: Hamburg 92.2MHz 0.35kW, Harz 99.5MHz 11.5kW.
ANN: 1st Prgr: "Hier ist das Erste Programm des Norddeutschen Rundfunks". 2nd Prgr: "Hier ist das Zweite Programm des Norddeutschen Rundfunks". 3rd Prgr: "Hier ist das Dritte Programm des Norddeutschen Rundfunks".
INT-SIG: 1st Prgr: Motiv from the first movement of Johs. Brahms Symphony no. 2.



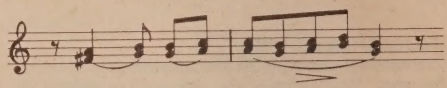
2nd Prgr: "Ein zerlegter Nonen-Akkord" – **3rd Prgr:** The tones "B-A-C-H" in Regerharmonization – **V.** by QSL-card – **PUB:** "NDR-information" (weekly), "NDR-Vorschau" (weekly), Prgr. sched. (weekly).

RADIO BREMEN (Anstalt des öffentlichen Rechts)

ADDR: Heinr. Hertz Str. 13, D-28 Bremen 33. **Te:** 4271 **Cable:** Radio.
L.P: Dir.Gen: Gerhard Schröder.
HOME SCE. (Hansawelle Bremen):
First Prgr: 0457-2205.
ARD-Night-Prgr: 2205-0455.
1079kHz 100kW (at night 30kW) – Bremerhaven 1358kHz 1.5kW – 6190kHz 50kW (see also SFB).
FM: Bremen I 93.8MHz 100kW.
N.Wrp. Comm: W 0500, 0530, 0600, 0700, 0800, 0900, 1000*, 1100*, 1200, 1300*, 1400*, 1500, 1600*, 1700*, 1800, 2100, 2200, 2300; Sun 0600, 0700, 0900, 1200, 1500, 1800, 2100, 2200, 2300 *) exc. Sat.
On 6190kHz: Sun-Fri 1400-1700, Sat 0800-1100.

Second Prgr: Mon-Fri 0457-1100, 1500-2200; Sat 0457-1100, 1430-2300; Sun 0900-1200, 1505-2200.
Bremen II 88.3MHz 100kW, Bremerhaven 92.1MHz 10kW.
N: W 0500, 0600, 0800(Mon-Fri), 1100(Mon-Fri), 1200, 1300(Mon-Fri), 1400(Mon-Fri), 1500, 1800 2000(W), 2145(Mon-Fri).
L.L: English: Tues 1530, Wed 0725, 1505, Thurs 0700.
French: Wed 1525*, Thurs 0720* – *) fortnightly.

Third Prgr. (ARD Prgr. for Foreign Workers): W 1635-2000; Sun 1030-1300, 1635-2000.
Bremen III 96.7MHz 10kW, Bremerhaven III 95.3MHz 1kW.
ANN: "Hier ist die Hansawelle Bremen bzw. Radio Bremen mit seinem zweiten Prgr".
INT-SIG:



V. by QSL-card. Rp. Re. in E, F, or G – **PUB:** Prgr. sched. free on request to Pressestelle, Radio Bremen.

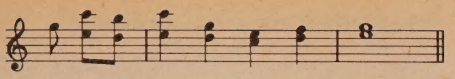
RIAS-BERLIN

ADDR: 1 Berlin 62, Kufsteiner Str. 69. **Cable:** Rias-Berlin. **Te:** (030)8503-1.
L.P: Dir: G.M. Gert. Intendant: Freiherr Ludwig von Hammerstein. Dir.Prgr: H. Kundler. Dir.Tec: D. Stahl. Dir.Adm: P. Naegele. Dir. Politics: H. Frentzel. Dir. Listeners' Rel. and Press: M. Maass.

STATIONS: *) RIAS I; +) RIAS II.

Location	kHz	kW	h. of tr.
Berlin-Britz+	683	100	0741a-1459
Hof*	683	40	0325b-0740c 1500-0035
Hof*	737	40	0741a-1459
Berlin-Britz+	854	100	0325b-0740c 1500-2345d
Berlin-Britz+	989	300	0325b-0315e
Berlin-Britz*	6005	20	0325b-1730f
München*	6005	100	1730-0315e

a) Sat/Sun 0736 – b) Sun 0400 – c) Sat/Sun 0735 – d) Sun/Mon 2335 – e) Sun 0350 – f) Winter 1540.
FM: Berlin* 89.6MHz 10kW+94.3MHz 10kW, Hof 91.2MHz 10kW.
D.PRGR: 24h – Prgr. Separation into RIAS I and RIAS II: Mon-Thurs 1345-2330, Fri 1345-2235, Sat 1345-2330, Sun 0700-2330. **N.Wrp:** Every 30 minutes past full hour exc. Sun: I+II 0730, 0830, 1130, 1330, 1530, 1730, 1830; I: 2030, 2230, II: 2130 – Mon-Fri: I+II: 1530, 1730, 1830; I: 1430, 1630, 2130, 2230 – Sat: I+II: 1530, 1730, 1830, 2030, 2230; I: 1630.
DX-PRGR (in German):
Last Mon of the month 2235-2300 on 683/989/6005kHz; repeated 1st Sun 1105 on 6005kHz (DX-Editor: A. Amler).
ANN: "Hier ist RIAS-Berlin" – **INT-SIG:** From a Trio Sonata:



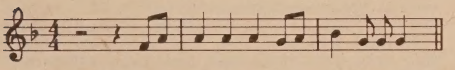
V. by QSL-card – **PUB:** Press service weekly RIAS education broadcast press service every six weeks – **FI:** by United States Information Agency (USIS).

SAARLANDISCHER RUNDFUNK (Gemeinnutzige Anstalt des offentlichen Rechtes)

ADDR: 6600 Saarbrücken Postfach 1050. **Te:** 6021. **Cable:** Radio Saarbrücken. **Telex:** 4428977.
L.P: Intendant: Dr. Fr. Mai. Verwaltungs. Dir: Dr. Friedrich Feldbausch. Chefredakteur: Karl Heinz Reintgen. (Stellv. Intendant) Prgr.Dir: Dr. Heinz Garber. Techn.Dir: Werner Glesner.
STATIONS: Heusweiler 1421kHz 1200kW (Europawelle).
FM: I=Europawelle, II+III=Studiowelle.

Station	I	II	III	kW
Bliestal	92.3	98.3	89.1	5
Göttelborner Höhe	88.0	91.3	95.5	100
Moseltal	91.9	88.6	96.1	5

HOME SCE. in German
SR1-Europawelle Saar: W 0430-2310 (ARD Night Prgr. 2205-0430) Sun 0500-2310 – **N.Wrp:** On the h exc. 2000.
Studiowelle Saar (FM II+III): W 0607-2100, Sun 0705-2200 (at prgr. free times between 0430 and 2300 relay at SR1-Europawelle Saar).
ANN: "Hier ist SR1 Europawelle Saar des Saarländischen Rundfunks auf 211m=1421kHz und auf UKW, Kanal 3, 88.0MHz" oder "Hier ist die Studiowelle Saar des Saarländischen Rundfunks auf UKW II und III, Kanal 14, 91.3MHz und Kanal 28, 95.6MHz."
INT-SIG:

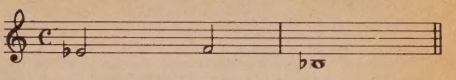


V. by QSL-card – **PUB:** Prgr. schedule monthly "SR-Information" – **AD:** SR1 Europawelle Saar: Mon-Fri 0500-1200, 1400-1800; Sat 0500-1300, 1600-1800.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

ADDR: Masuren Allee 8-14, 1 Berlin 19. **Te:** 3081. **Telex:** 182813. **Cables:** Sender Freies Berlin.
L.P: Vorsitzender d. Rundfunkrates: Dr. Wolfgang Haus, Intendant: Franz Barsig. Dir.Prgr: Dr. Erich Proebster. Dir.Tec: Prof. E. Böhnke. Dir.Adm: Dr. Hans-Joachim Lehmann. Chief Editor: Dr. P. Pechel.
STATIONS: 1st Prgr: 566kHz 100/33kW* – 88.75MHz 80kW – 6190kHz of R. Bremen.
2nd Prgr: 1484kHz 5kW – **FM:** 92.4MHz 96.3MHz (both 80kW).
*) 0000 until sunset 100kW (omnidirectional antenna), from sunset until 2400 33kW (screened in direction of Ireland).
HOME SCE: SFB1: 0458(Sun 0558)-0330 also on 1484 kHz/92.4/96.3MHz if not in use for 2nd prgr.
On 6190kHz: Sun-Fri 2300-1400, 1700-2300; Sat 2300-0800, 1100-2300.
N, Wrp: SFB1: W hourly exc. 1900, 2000 and Sat 1700; Sun 0600, 0700, 0800, 1000, 1200, 1400, 1600, 1800, 1900, 2100, 2200, 2300.
Actualities: SFB1: Mon-Fri 1105, 1145, 1730; Sat SFB2: W 0605.
"Unser Kurzwellenbummel" (a prgr. for SW-friends compiled and produced by W. Uthoff): Every 4th Sat 0945-1000(on 566kHz) and repeated following Sun 0645-0700 on 566/6190kHz.
SFB2: Mon/Fri 0400-2305(Sun 0500-2305). **N, Wrp:** W: 0500, 0600, 0700, 0800, 0900, 1000, 1100, 1200, 1400 (Sat), 1500(Sat), 1700(Sat), 1930, 2300. Sun: 0600, 0700, 0900, 1300, 1930, 2300.

ANN: "Hier ist SFB1/SFB2" – **INT-SIG:** Cembalo:



V. by QSL-card – **PUB:** "Vorschau" (weekly).

SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR: D-7000 Stuttgart-1, P.O. Box 837. **Cable:** Rundfunk, Stuttgart. **Te:** (0711)2881. **Telex:** 0723456.
Studios: Heidelberg-Mannheim: Heidelberg, Schloss-Wolfsbrunnenweg 33, Karlsruhe: Kriegsstr. 168; Ulm: Olgastr. 62.
L.P: Vorsitzender des Rundfunkrats: Oberkirchenrat Dr. Manfred Müller. Vorsitzender des Verwaltungsrats: Heinz Bühringer (Mdl.) Intendant: Prof. Dr. Hans Bausch. Programdir: Dr. Peter Kehm. Verwaltungsdir: Hermann Fünfgeld, Technischerdir: Dr. Dietrich Schwarze. Dir. TV: Horst Jaedicke.

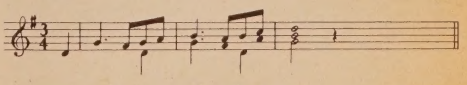
HOME SCE: Südfunk I: W 0430-2305: Sun 0450-2305. D 2305-0430(Sun 0450): ARD=Night Prgr.

Station	kHz	kW	Station	kHz	kW
Mühlacker	575	300	Bad Mergenth.	1412	3
Heidelberg	998	10	Wertheim	1484	0.2
Buchen			Heidenheim	1484	0.2
Walldürn	998	0.2	Bopfingen	1484	0.2
Ulm	1169	5	Adelsheim	1484	0.2
Heilbronn-Obereisesh.	1169	10			

Shortwave: Mühlacker, **GC:** 08.51E/48.57. N: 6030kHz 20kW: 0430(Sun 0450)-2305.
N: W 0430, 0500, 0600, 0700, 0800, 0900, 1000, 1100, 1130, 1300, 1400(not Sat), 1500(not Sat), 1600, 1700, 1800, 2100, 2200, 2300; Sun 0600, 0700, 0800, 0900, 1000, 1130, 1600, 1800, 2100, 2200, 2300.
DX-Prgr (in German): "Kurzwellenbummel": Every 4th Sat 1545.

FM	I	II	III	kW
Aalen	95.1	91.1	98.1	50
Bad Mergentheim	87.8	93.2	99.6	0.5
Buchen/ Walldürn		91.9		0.1
Geislingen	93.0	88.5	95.5	0.5
Heidelberg	97.8	88.8	99.9	100
Mühlacker	97.0	89.5		5
Stuttgart	94.7	90.1	92.2	100
Stuttgart (Funkhaus)	88.0			0.5
Ulm	94.5	89.2	97.4	1
Waldenburg	98.8	93.8	96.5	100
Wertheim	96.9	91.8	94.6	0.05

FM: Südfunk 2: Sun 0450-2305; W 0455-2305(Sat 0030).
N: W 0500, 0530, 0630, 0730(Sat), 0830(Sat), 1100, 1130, 1200, 1600(not Sat), 1700(Sat), 1900, 2200, 2300; Sun 0630, 0730, 0830, 1200, 1600, 1900, 2200, 2300.
FM: Südfunk 3: Sun 0600-2120; W 0500-2000(Sat 2120).
N: W 0500, 0600, 0630, 0730, 0900, 1000, 1200, 1630(not Sat); Sun 0600, 0700, 0800, 0900, 1000, 1200.
ANN: "Hier ist der Süddeutsche Rundfunk" – **INT-SIG:** (Südfunk 1): The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele" – **V.** by QSL-card.



SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

ADDR: 7570 Baden-Baden, Hans-Bredow-Strasse. **Cable:** Südwestfunk. **Te:** 2761. **Telex:** 07521-0. **Studios:** 7800 Freiburg (Günterstal): Schauinslandstrasse 136; 6500 Mainz: Deutschhausplatz 8; 7400 Tübingen: Matthias-Koch-Weg 7.

Branches: 6750 Kaiserslautern: Fliegerstrasse 36; 5400 Koblenz: Januarius-Zick-Strasse 8, 7750 Konstanz: Wollmatingerstrasse 39; 6700 Ludwigshafen: Neuer Pfalzbau; 5500 Trier: Christophstrasse 24; 7980 Ravensburg, Gottlieb Daimler Strasse.

L.P: Vorsitzender des Rundfunkrates: vacant. Vortzitzender des Verwaltungsrates: Julius Saxler, Trier. Intendant: Helmut Hammerschmidt. Fernsehdir: Gerd Olaf Krystof. Hörfunkdir: Dr. Dieter Göbel. Technischerdir: Dr. Karl Schörken. Verwaltungsdir. & stellv. Indendant: Ulrich Weber. Justitiar: Dr. Egon Wagner. Press & Information: Fritz Niehus.

STATIONS

Mediumwave	kHz	kW		kHz	kW
Bodenseesender	665	300	Freiburg	827	40
Baden-Baden	827	1.5	Wolfsheim	1016	300

Shortwave: Rohrdorf 7265kHz 20kW.

FM	I	II	III	kW
Baden-Baden	90.9	98.9	94.1	0.5
Bad Marienberg	89.8	95.4	93.1	25
Blauen	89.2	92.6	97.0	8.4
Brandenkopf	88.9	95.4	99.7	0.5
Donnersberg	99.1	92.0	89.9	60/60/30
Eggberg	89.5			0.6
Eifel	91.1		98.5	8
Feldberg/ Schwarzwald	89.8	97.9	93.8	1
Haardtkopf	97.7	93.0	90.0	25
Hohe Möhr	87.9	92.0	96.8	0.5
Hornisgrinde	93.5	96.2	98.4	80
Koblenz	96.05	94.0	91.6	10
Linz	92.4	97.4	94.8	50
Potzberg	90.8	93.9	97.5	20
Raichberg	88.3	91.8	94.3	25
Saarburg	99.2		90.6	0.3/5
Waldburg	91.2	94.9	98.7	18
Wannenberg	89.0	92.8	98.5	1
Weinbiet	95.9			25
Witthoh	92.4	90.4	97.1	37.5

1st Prgr: 0430(Sun 0500)-2130(Wed 2300) on MW, SW +FM-I st's.

2nd Prgr (FM-II st's): 0430(Sun 0500)-2300.

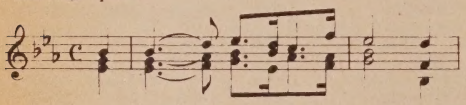
3rd Prgr (FM-III st's): 0425(Sun 0500)-2130 (approx).

For Foreign Workers (on 3rd Prgr): 1639-2000 – 1640 Turkish, 1720 Yugoslavian, 1800 Italian, 1840 Spanish, 1920 Greek.

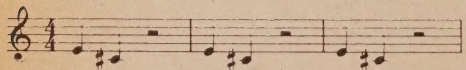
"Musik bis zum frühen Morgen" (ARD): 2305-0430(Sun 0500) on 1st, 2nd and 3rd Prgr (Wed on 1st prgr. only).

ANN: "SWF1", "SWF2", "SWF3-Radiodienst" – **INT-SIG. Baden-Baden:** 1st Prgr: Motiv aus Mozarts "Zauberflöte": "Bald prangt, den Morgen zu verkünden".

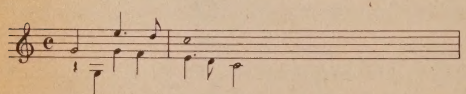
2nd Prgr. (piano):



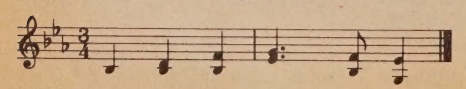
Freiburg: Glockenmotiv des Freiburger Münsters "Petrus und Maria":



Mainz: "Dort wo der Rhein mit seinen Wellen" (celeste):



Tubingen: "Droben im Oberland" (2 horns):



V. by QSL-card and letter. Rp.

WESTDEUTSCHER RUNDFUNK (WDR) (Anstalt des öffentlichen Rechts)

ADDR: Appellhofplatz 1, 5 Köln. **Te:** 2201. **Cable:** WDR. **Studios:** 53 Bonn, Dahlmannstrasse 14; 4 Düsseldorf, Palmenstrasse 16; 46 Dortmund, Mommsenweg 5; 44 Münster, Mondstr. 144-146; 48 Bielefeld, Lessingstrasse 3; 43 Essen, Lindenallee 56.

L.P: Indendant: Friedrich-Wilhelm v. Sell. Dir.Radio: Manfred Jenke. Dir.Tec: Ingo Dahrendorf. Dir.Prod: H. Töldte. Dir.Adm: Fr. Bösel.

STATIONS

M.wave	kHz	kW	M.wave	kHz	kW
Aachen/Stolb	701	5	Kleve	971	3
Herford	701	2	Münster	1502	0.8
Siegen	701	2	Langenberg	1586	400/ 800
Bonn	971	5			

FM	I	II	III	kW
Aachen/Stolberg	88.0	93.9	95.9	5/5/2.5
Bonn	88.3	90.7	92.8	0.5
Eifel		93.6		8
Kleve	99.7	93.3	97.3	0.25
Köln	87.8	95.7	91.8	0.5
Langenberg	88.8	99.2	95.1	100
Monschau	87.7	94.2	98.2	0.05
Münster	92.0	94.1	89.7	6/6/18
Nordhelle	90.3	93.5	98.1	15
Siegen	97.1	92.6	88.2	0.4
Teutoburger Wald	90.6	93.2	97.0	100
Wittgenstein	88.7	92.3	95.8	15

HOME SCE

1st Prgr (common WDR/NDR prgr): 0450-2300. **Night Prgr:** On 1586kHz and all FM-st's: 2305-0445(Sun 0500). **N, Wrp:** 0500 (W), 0600, 0700, 0705(Sun, Church N), 0800, 0900 (W), 1000, 1100 (W), 1200, 1300 (W), 1400, 1500 (W), 1600, 1700 (W), 1800, 2100, 2200, 2300 – **Comm:** 0505, 0605, Mon-Fri 1210, 1810, 2110. **Wrp:** Repeats of short version within music prgr's at 0530, 0630, 0730.

2nd Prgr: 0445(Sun 0559)-2305. **N, Wrp:** 0500, 0530, 0600, 0630, 0730, 0800, 0900, 1000, 1100, 1200, 1400, 1600(not Sat), 1800, 2000, 2200, 2300; Sun: Every 2nd h 0600-2200(exc. 1600) and 2300.

3rd Prgr: 0559-2315. **N:** 0600, 0700, (W), 0800, 1000 (W), 1100(Mon-Fri), 1200, 1400, 1700(Mon-Fri), 1900, 2200, 2300.

Prgr. for Foreign Workers: W 1635-2000, Sun 1025-1300, 1635-2200. Aachen-Stolberg 102.5MHz 0.5kW – Langenberg 100.4 MHz 50kW – Teutoburger Wald 88.1MHz 3kW.

ANN: First Prgr: "WDR1". Second Prgr: "WDR2". Third Prgr: "WDR3" – **INT-SIG:** First Prgr: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument. 2nd Prgr: First 4 notes from the 2nd movement of the Rheinish Symphony by R. Schumann (Electronic). 3rd Prgr: First 5 notes of Papageno's chime of Bells from "The Magic Flute" by W.A. Mozart (Electronic). – **V.** by QSL-card or letter. Rec. to Technische Direktion.

AMERICAN FORCES NETWORK (United States Army)

ADDR: Headquarters, AFN Europe, 6000 Frankfurt/Main, Bertramstrasse 6 or APO New York, NY 09757, USA **Te:** (0611)-1516101.

STATIONS	kHz	kW		kHz	kW
Nurnberg*	611	10	Würzburg	1142	0.25
Grafenwöhr	611	10	Bamberg	1304	0.25
Kaiserslautern*	611	10	Berchtesgaden	1304	0.25
Frankfurt†	872	150	Bitburg	1304	0.25
Berlin*	935	10	Heidelberg	1304	1
Ansbach	1034	0.25	Regensburg	1304	0.25
Bad Kissingen	1034	0.25	Fulda	1304	0.25
Karlsruhe	1034	1	Wertheim	1304	0.25
Munich*	1106	50	Augsburg	1394	1
Stuttgart*	1142	10	Crailsheim	1394	0.25
Goeppingen	1142	0.25	Garmisch	1502	0.25
Bremerhaven*	1142	5	Giessen	1502	0.25
Hof	1142	1	Hohenfels	1502	0.25
Hersfeld	1142	0.25	Wildflecken	1502	0.25
Schweinfurt	1142	0.25			

FM: Berlin 87.85MHz 1.5kW, Frankfurt 98.7MHz 60kW, Stuttgart 102.4MHz 100kW, Augsburg 100.4MHz 15kW, Heidelberg 100.4MHz 0.375kW, Illesheim 101.0MHz 0.375kW, Pirmasens 101.75MHz, 0.375kW, Bonn 101.4MHz 0.075kW, Ulm 100.7 MHz 1kW – *) Studio installations; †) Key station.
D.Prgr: 24h – **N:** Every h on the h (5 min.) + major newscasts (30 min.) at 0600, 1700, 2100.
ANN: "This is AFN, The American Forces Network, Europe" announced at least every h – **INT-SIG:** Every h on the h, AFN announces the time and the sixth and final pip is exactly on the h as announced – **V.** by QSL-card. Recordings not desired and will not be returned.

BRITISH FORCES BROADC. SCE. COLOGNE

is operated by Ministry of Defence to provide a sce. of inf, entertainment as well as a link with home for H.M. Forces in Germany. It is non-comm. does not accept adv.
ADDR: BFBS Cologne, Post Box 510526, 5 Köln-Marienburg, Parkstr. 61. **Te:** 384001 Cologne Civil. **Telex:** 8881329.
L.P: St.Contr: M.A. Pachebat. Sen.Prgr. Organizer: Ken Doherty. Eng. in charge: M.E. Townley.

FM-st's	MHz	FM-st's	MHz
Werl	87.8	Visselhövede	97.6
Brunswick	93.0	Berlin	98.75
Herford	95.4	Hameln	99.3
Langenberg	96.5	Bonn	99.8

English 0530-2230(Sat 2400); Sun 0700-2300. **N.** (BBC): 0700, 0800, 1200, 1700, 2100, 2300(Sat only): also headlines hourly, on the half hour.
ANN: "This is the British Forces Broadc. Sce. Germany" or "You are tuned to FBS in Germany".
INT-SIG: "Strings on Parade" (Martin) vibraphone or light orchestra.
V. by letter. Rp. – **PUB:** BFBS "Listen" weekly (free).

RADIO CFN-RFC (Canadian Forces Europe)

ADDR: 9 Jammstrasse, 763 Lahr, Schwarzwald.
L.P: Dir: Hans Konow.
STATIONS: 0.5/0.15kW. Lahr 102.5MHz English, Lahr 101.2MHz French, B. Söllingen 101.125MHz English, Ramstein 101.25MHz English – **D.PRGR:** 0530-2300 – **V.** by letter.

RADIO FORCES FRANCAISES DE BERLIN (FFB)

Relay st. for entertainment of French Forces in Berlin.
ADDR: Kurt-Schumacher-Damm, Quartier Napoléon, Berlin-Reinickendorf – **FM:** 93.6MHz 3kW – **HOME SCE:** Continuously – **Rel:** Radio-France Programmes.

RADIO FREE EUROPE/RADIO LIBERTY

ADDR: 1201 Connecticut Ave. NW, Washington DC 20036, USA. **Te:** (202) 457-6900.
L.P: Pres: Sig Mickelson. Exec. Vice-Pres.(Europe): Walter K. Scott. Dir.Eng.(US): S. Leinwoll. Dir.Eng.(Europe): E.S. Campbell.

RADIO FREE EUROPE

ADDR: Oettingenstrasse 67, 8 Munich 22. **Te:** 21021.
Cable: Raduropa.
L.P: Dir. A. Hemsing.

RADIO LIBERTY

ADDR: Oettingenstrasse 67, 8 Munich 22. **Te:** 21021.
Cable: Radlib.
L.P: Dir: F.S. Ronalds.

STATIONS

Mediumwave: Holzkirchen 719kHz 150kW.
Shortwave: 9 sw-tr's in Biblis, Germany, 4 sw-tr's in Holzkirchen, Germany, 9 sw-tr's in Lampertheim, Germany, 6 sw-tr's in Playa de Pals, Spain and 18 sw-tr's near Lisbon, Portugal. (**G.C:** Biblis 08.30E/49.41N; Holzkirchen 11.44E/47.52N: Lampertheim 08.83E/49.83N: Playa de Pals 03.33E/42.00N: Lisbon 08.40W/38.45N).
D.PRGR: B=Biblis, G=Gloria (near Lisbon), H=Holzkirchen, L=Lampertheim, P=Playa de Pals.

RFE Area	Transmitters B	H	G	Transmitters Area	B	H	G
Poland	63°	50°	47°	Hungary	106°	110°	59°
Czechoslo-slovakia	98°	66°	52°	Rumania	106°	110°	63°
				Bulgaria	108°	118°	69°

RL Area	Transmitters L	P	B	H
USSR	55°	41°	60°	55°
	75°	52°		
	93°	63°		

For freq's used please refer to shortwave table.

All of R. Liberty's tr's with the exception of those to East Germany are directed to the USSR. R. Liberty prgr's are also transmitted from RFE facilities in Biblis and Holzkirchen. Most RFE freq's are registered for use both in Germany and in Portugal and the selection of tr. location is a function of propagation conditions throughout the year.

Schedule (Nov. 76-Feb. 77)

RFE
Bulgarian: 0357-0610, 1557-2138; Sun 0357-0610, 1857-2138.
Freq's used (times variable): 6135, 6170, 7165, 7200, 9505, 9565, 11825, 15115, 17725kHz.
Czech/Slovak: 0357-0042; Sun 0557-0042.
Freq's used (times variable): 719, 3970, 5970, 5985, 6105, 6135, 7115, 7145, 7165, 7200, 7215, 7220, 9565, 9595, 9705, 9725, 11885, 15255, 15355, 17835, 21720kHz.
Hungarian: 0345-2305; Sat/Sun 0554-2305.
Freq's used (times variable): 5985, 6070, 7115, 9705, 11815, 15170kHz.
Polish: 0355-2310; Sun 0555-2310.
Freq's used (times variable): 719, 3990, 5970, 6105, 7145, 7190, 9595, 9695, 11725, 15145, 15170, 17805, 21665kHz.
Rumanian: 0355-0805, 1455-2305; Sun 0555-2305.
Freq's used (times variable): 6115, 7145, 7255, 9595, 9695, 11855, 11895, 15215, 17735kHz.

RL
Armenian: 0100-0130, 0230-0300, 0400-0430, 1600-1700, 1900-2000.
Freq's used (times variable): 7155, 7295, 9520, 9555, 11875kHz.
Azerbajdzhan: 0200-0230, 0330-0400, 1800-1900, 2100-2200.
Freq's used (times variable): 7155, 7295, 9520, 9555, 11875kHz.
Belorussian: 0330-0400, 0530-0600, 1800-1900, 2200-2300.
Freq's used (times variable): 5955, 5985, 7180, 7245, 7250, 7295, 9715kHz.
Estonian: 0200-0230, 0400-0430, 1700-1800, 2100-2200.
Freq's used (times variable): 5955, 6170, 7155, 7180, 7190, 7245, 7250, 7295, 9715kHz.
Georgian: 0130-0200, 0300-0330, 0430-0500, 1700-1800, 2000-2100.
Freq's used (times variable): 7155, 7295, 9520, 9555, 11875kHz.
Latvian: 0230-0300, 0430-0500, 1500-1600, 1900-2000.
Freq's used (times variable): 5955, 6010, 7180, 7245, 7250, 7295, 9715kHz.
Lithuanian: 0300-0330, 0500-0530, 1600-1700, 2000-2100.
Freq's used (times variable): 5955, 5985, 7180, 7245, 7250, 7295, 9505, 15380kHz.
Russian: 0000-2400.
Freq's used (times variable): 5955, 5985, 6000, 6070, 6135, 6170, 7155, 7180, 7190, 7220, 7245, 7250, 7295, 9505, 9520, 9530, 9540, 9555, 9565, 9620, 9660, 9680, 9715, 9725, 9750, 11835, 11875, 11885, 11895, 11970, 15290, 15340, 15370, 15380, 15445, 17725, 17750, 17760, 17845, 17895kHz.
Tatar Bashkir: 0200-0300, 1400-1500, 1700-1800.
Freq's used (times variable): 7295, 9565, 9680, 11970, 15380, 17895kHz.
Turkestani: 0000-0200, 1300-1600.
Freq's used (times variable): 7220, 9555, 9750, 15290, 15370, 17725, 17750kHz.
Ukrainian: 0300-0500, 1500-1700, 1900-2200.
Freq's used (times variable): 6070, 7155, 7220, 9505, 9520, 9555, 9660, 9680, 11705, 11970, 15130kHz.

Schedule March-April 77

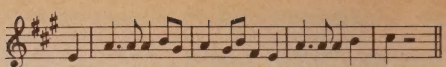
RFE

Bulgarian: 0357-0610, 1557-2138; Sun 0357-0610, 1357-2138.
Freq's used (times variable): 6135, 6170, 7245, 9540, 9565, 11825, 11855, 15115, 17725, 21745kHz.
Czech/Slovak: 0357-0042; Sun 0557-0042.
Freq's used (times variable): 3970, 5970, 6105, 7165, 9725, 11770, 15255, 17835, 21720kHz.
Hungarian: 0354-2305; Sat/Sun 0554-2305.
Freq's used (times variable): 5985, 7115, 9705, 11895, 15170, 17770kHz.
Polish: 0355-2310; Sun 0555-2310.
Freq's used (times variable): 3990, 5970, 6105, 7190, 9595, 9695, 11725, 15170, 15290, 17805, 21665kHz.
Rumanian: 0355-0805, 1455-2305; Sun 0555-2305.
Freq's used (times variable): 6115, 7215, 7255, 9695, 11815, 11835, 15215, 17725, 17735kHz.

RL

Armenian: 0100-0130, 0230-0300, 0400-0430, 1600-1700, 1900-2000.
Freq's used (times variable): 7200, 9555, 9750, 11770, 11855, 11925, 15340, 17865kHz.
Azerbajdzhan: 0200-0230, 0330-0400, 1800-1900, 2100-2200.
Freq's used (times variable): 7155, 7295, 9520, 9555, 11875kHz.
Belorussian: 0330-0400, 0530-0600, 1800-1900, 2200-2300.
Freq's used (time variable): 3970, 6135, 7145, 7165, 7180, 9505, 9555, 11825, 11865kHz.
Estonian: 0200-0230, 0400-0430, 1700-1800, 2100-2200.
Freq's used (times variable): 5970, 6070, 6170, 7295, 9505, 9680, 11815, 11935, 15370, 17760kHz.
Georgian: 0130-0200, 0300-0330, 0430-0500, 1700-1800, 2000-2100.
Freq's used (times variable): 7155, 7295, 9520, 9555, 11875kHz.
Latvian: 0230-0300, 0430-0500, 1500-1600, 1900-2000.
Freq's used (times variable): 5955, 6010, 7180, 7245, 7250, 7295, 9715kHz.
Lithuanian: 0300-0330, 0500-0530, 1600-1700, 2000-2100.
Freq's used (times variable): 5955, 5985, 7180, 7245, 7250, 7295, 9505, 15380kHz.
Russian: 0000-2400.
Freq's used (times variable): 3960, 5955, 6105, 6170, 7145, 7155, 7165, 7180, 7200, 7220, 9505, 9520, 9555, 9660, 9680, 9725, 9750, 11875, 11885, 11935, 11970, 15290, 15340, 15370, 15380, 15445, 17725, 17750, 17760, 17845, 17895kHz.
Tatar Bashkir: 0200-0300, 1400-1500, 1700-1800.
Freq's used (times variable): 7220, 9505, 9520, 11875, 15340, 15445, 17895kHz.
Turkestani: 0000-0200, 1300-1600.
Freq's used (times variable): 7220, 9660, 15370, 17770kHz.
Ukrainian: 0300-0500, 1500-1700, 1900-2200.
Freq's used (times variable): 7155, 9660, 11875, 11935, 15130, 15290, 15370kHz.

ANN: RFE: Sign on and sign off: Bulgarian: "Tuk e Radio Svobodna Evropa". Czechoslovak: "Hlási se vám ceskoslovenská stanice rozhlasu Svobodná Evropa". Hungarian: "Itt a Szabad Európa Rádió". Polish: "Mówi Rozglosnia Polska Radia Wolna Europa". Rumanian: "Aici e Radio Europa Libera". RL: Azerbaijani: "Danyshyr Asadlyk Radiosu". Armenian: "Chosume Azatutiun Radiokayane". Belorussian: "Gavaryts Radyio Svoboda". Estonian: "Siin Vabaduse Raadio". Georgian: "Laparakobs Radiosadrugi Thavisuphleba". Latvian: "Te Runa Brivibas Raiditajs". Lithuanian: "Kalba Laisves Radijas". Russian: "Govorit Radiostantsia Svoboda". Tatar-Bashkir: "Monda Azatlyk Radiostansyese Suyili". Turkestani: "Asatlyk Radiosydan Gapiramiz". Ukrainian: "Hovorit Radio Svoboda".
INT-SIG: RFE: Bulgarian: Part of Bulgarian National Anthem (Celeste). Czech/Slovak: Czech and Slovak National Anthem (Celeste). Hungarian: Old Hungarian folksong. Polish: Polish patriotic song: "Hail Glorious Dawn of May" (brass instruments). Rumanian: Folk Motif (Orch and Flute). RL (Russian Sce): Hymn to Freedom, by Gretchaninoff.



V. by QSL-card.
Radio Free Europe/Radio Liberty is a non-profit, privately managed network broadcasting news and information to the peoples of Bulgaria, Czechoslovakia, Hungary, Poland, Rumania and the USSR. It is supported by US government appropriations through the Board for International Broadcasting.

VOICE OF AMERICA RADIO STATION IN MUNICH

ADDR: Voice of America, Washington DC 20547, USA, 1×300kW MW-tr, 4×100kW SW-tr's.

Mediumwave: Munich A 1196kHz 300kW: 0300-0700, 1630-2230.
Shortwave: Munich (G.C: 11.45E/48.15N) 100kW: 0200-0800, 1400-2230.

Nov-Feb		Mar-Apr	
kHz	Times	kHz	Times
1196	0300-0700	1196	0300-0700
	1630-2230		1630-2230
3980	0300-0700	3980	0300-0700
	1700-2200		1700-2200
5965	1600-1700	5965	1600-1900
6030	1700-2100	6110	1700-2100
6060	1600-1800	6140	1900-2200
6110	1700-2100	6150	0300-0500
6150	0300-0500	7290	1700-2100
7290	1800-2200	9620	1400-1630
9580	0730-0800	9680	0600-0800
9680	0600-0730	15430	0600-0730
9770	0715-0745		
11960	1400-1600		
15430	0600-0730		

D.PRGR: Mediumwave: 0300-0400 **English,** 0400-0415 Bulgarian, 0415-0430 Hungarian, 0430-0445 Czech, 0445-0500 Polish, 0500-0515 Bulgarian, 0515-0530 Hungarian, 0530-0545 Czech, 0545-0600 Polish, 0600-0700 **English,** 1630-1700 Czech, 1700-1730 **English,** 1730-1900 Hungarian, 1900-2000 Polish, 2000-2100 Czech, 2200-2230 Polish. **Shortwave:** See USA.

ANN: "This is the Voice of America" is announced in the language of the programme in which it is given. Station identification is in English: "You are listening to the Voice of America in Washington" – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programmes – **V.** by QSL-card. Reports required. No Rp.

GERMAN DEMOCRATIC REPUBLIC

L.T: GMT+1h – **Pr.L:** German.

STAATLICHES KOMITEE FÜR RUNDFUNK BEIM MINISTERRAT DER DDR

ADDR: 116 Berlin, Nalepastrasse 18-50. **Te:** 6360. **Cable:** Funkkomitee.
L.P: Dir.Gen: R. Singer. Vice Dir.Gen: K. Ehrich, R. Weissbach, Dr. W. Sydow. Dir.Tech: Dipl.Ing. A. Schulz. Dir. Foreign Rel: F. Günzel. Intendant: K. Goldstein(Stimme der DDR), R. Schmidt(Radio DDR), H. Frenzel(Berliner Rundfunk). Editor-in-Chief: K. Fischer(Radio Berlin International).

HOME SERVICE
STIMME DER DDR (Voice of GDR)

Location	kHz	kW
Berlin (Königswusterhausen)	185	750
Schwerin (Wöbbelin)	611	250
Suhl (Wachenbrunn)	692	250
Burg	782	1000
Berlin	1358	250

Location	kHz	kW
Berlin	6115	500
Berlin	7185	5

HOME SCE: 24h – **Night Prgr:** 0015-0355 on 185/611/782/1358kHz(Tues-Fri also 97.65MHz); Sat and Sun on all freqs. **N:** Mon-Fri 0400-0700 half-hourly, 0015-1900 hourly, 2100, 2230, 2400; Sat 0400-0700 half-hourly, 0700, 0800, 1000, 1100, 1200, 1300, 1500, 1700, 1800, 1900, 2200, 2400; Sun 0500, 0600, 0700, 0800, 1000, 1200, 1300, 1500, 1700, 1800, 1900, 2200, 2400. **Prgr. preview:** 0755, 1730 – **Comm:** W 1805, 0005; Sun 1205, 0005 – **Press review:** W 0730, 1305; Sat 0805, 1205 – **"Blick in die Welt"** Mon-Fri 2230.

RADIO DDR I: 24h of information and entertainment.

Station	kHz	kW	Station	kHz	kW
Schwerin	529	20	Berlin	881	100
Greifswald	629	5	Dresden	1043	250
Leipzig	575	100	Plauen	557	5
Rostock	557	20	Putbus	1052	5
Suhl	629	20	Seelow	1546	5
Cottbus	746	20	Beeskow	629	5
Burg	1570	250	Helpterberg	602	5

D.PRGR: 0345-2400 on all freqs; 0000-0345 on 629/575/1043kHz and all FM sts (Night Sat/Sun on all freqs). **N.Wrp:** W every h on the h; Sun 0000, 0200, 0400, 0500, 0600, 0700, 0900, 1100, 1300, 1400, 1500, 1600, 1700, 1900, 2100, 2200 – **Actualities and Comm:** 1200, 1910, 2210, Sun 1910.

RADIO DDR II: 1000-2400 on FM (see below). **N.Wrp:** 1000, 1300, 1500, 1700, 2000, 2300; Sun 1000, 1200, 1300, 1500, 1900, 2200 – **Actualities and Comm:** 1305, 1705, 2305; Sun 1305, 1910.

BERLINER RUNDFUNK: 24h. 0345-2400 on all freqs; 0000-0345 only on 728kHz(relay of R. DDR); Mon 0800-1200 only on FM-netw. **N.Wrp:** Mon-Fri 0000, 0100, 0200, 0300, 0400, 0430, 0500, 0530, 0600, 0630, 0700, 0730, 0830, 1030, 1230, 1330, 1530, 1930, 2130, 2330; Sat 0000, 0100, 0200, 0300, 0400, 0430, 0500, 0530, 0600, 0630, 0700, 0730, 0830, 1030, 1230, 1330, 1530, 1730, 1930, 2130, 2330; Sun 0000, 0200, 0530, 0630, 0730, 0830, 1030, 1330, 1530, 1730, 1930, 2130, 2330.

Station	kHz	kW	Station	kHz	kW
Karl-Marx Stadt	602	5	Reichenbach	656	3.5
			Plauen	1079	2
Berlin-Köpenick	728	250	Suhl	1052	5
Potsdam	656	20	Bernburg	1385	20

FM: I=R. DDR I, II=R. DDR II, BR=Berliner Rundfunk, SD=Stimme der DDR. °)=stereo.

Station	I	II	BR	SD	kW
Berlin	95.8°	99.7°	91.4°		50
Berlin			95.05	97.65	100
Brocken	88.95°	94.6°	91.55°	97.4	50-100
Cottbus		98.6			1
Dequede	89.4°	94.9°	98.9	96.9	1-10
Dresden	95.4°	92.25°	90.1	97.25	50-100
Frankfurt(Oder)		96.8			50
Helpterberg	95.95				1
Inselsberg	87.85°	92.55°	90.2	97.15	50-100
Karl-Marx-Stadt	87.75°	92.85°	89.8	97.05	50-100
Leipzig	88.45°	93.85°	90.4	96.6	10-100
Löbau		98.2			3
Marlow	88.25°	91.05°	93.5	96.65	50-100
Rheinsberg		90.5			30
Schwerin	89.2°	92.75°	98.55	95.25	30-100
Sonneberg			91.7	94.2	100

RADIO DDR-FERIENWELLE

ADDR: 25 Rostock 1.
STATIONS: Rostock 557kHz 20kW, Putbus 1052kHz 5kW.
SCHEDULE: 0600-1900 Entertainment for tourists along the Baltic coast during summer months. **N:** headlines on the h.
ANN: "R. DDR Ferienwelle" – **V.** by letter.

RADIO DDR-MESSEWELLE

ADDR: Springerstr. 24, 7022 Leipzig.
STATIONS: Leipzig 529kHz 10kW+89.3MHz.
SCHEDULE: 0600-1800 during the Leipzig Fair.
ANN: "R. DDR Messewelle" – **V.** by special QSL-card.

RADIO BERLIN INTERNATIONAL

Transmitters at Königswusterhausen (G.C: 13.37E/52.18N), Nauen (G.C: 12.54E/52.38N) and Leipzig (G.C: 12.22E/51.14N): Powers 5/50/100/250/500kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
1511	6080	7260	9665	11875	15145	17700
5955	6115	7300	9730	11975	15170	17740
6010	6140	9500	9755	15100	15240	17755
6040	6195	9510	11700	15115	15255	17880
6070	7185	9600	11830	15130	15285	21540

EUROPEAN SERVICE: On 6080/6115/7185/7260/7300/9730/1511kHz: **English:** 1730-1815, 2115-2200(on 7260/1511kHz), 1830-1915(exc. 7260/1511kHz). **French:** 1615-1700(exc. 1511/7300kHz), 1815-1900(on 7260/1511kHz), 2000-2045(exc. 7260/1511kHz), 2215-2300(exc. 7300/7260/1511kHz). **Swedish:** 1700-1745(exc. 7260/1511kHz), 2030-2115(on 1511kHz), 1915-2000, 2130-2215(exc. 7260/1511kHz). **Danish:** 1745-1830(exc. 7260/1511kHz), 1945-2030(on 7260/1511kHz). **Italian:** 1900-1945(on 7260/1511kHz), 2045-2130(exc. 7260/1511kHz). **Greek:** 1815-1900, 2030-2115, 2200-2245(on 9755kHz). **DX-PRGR:** Tues fortnightly in all prgrs.

OVERSEAS SERVICE

I=Near East; II=No. We. Africa; III=Ce. Africa; IV=We. Africa; V=Ea. Africa; VI=So. Asia; VII=No. America (East); VIII=No. America (West); IX=Latin America.

Arabic	Area	kHz
1000-1145	I	9730
		11700
		15240
		15285
1000-1145	II	9665
		15100
1300-1445	I	9730
		11700
		15240
		15285
1300-1445	II	15130
1900-2045	I	11700
1900-2045	II	9665
English		
0100-0145	VII	9730
0230-0315	VII	9730
0330-0415	VIII	5955
		6080
		9730
0445-0530	IV	11875
	V	11700
0645-0730	VI	17700
		17740
1200-1245	VI	15115
		17880
		21540
1400-1445	VI	17880
		21540
1315-1400	III	17755
1530-1615	VI	11975
1800-1845	IV	15255
	V	15145
		15170
2000-2045	IV	6140
		11975
French		
0615-0700	IV	11875
1400-1445	III	17755
1500-1545	IV	15255
	V	15145
		15170
1715-1800	IV	15255
	V	15145
		15170
1915-2000	IV	6140
		11975
2045-2130	II	9665
	IV	6140
		11975
German		
2230-2315	IX	5955
		6010

German	Area	kHz
2230-2315	IX	6070
		9500
		9600
0145-0230	VII	9730
0415-0500	VIII	5955
		6080
		9730
0530-0615	IV	11875
	V	11700
1245-1300	VI	17880
		21540
1700-1745	I	11975
0530-0615	I	9730
		11830
		15240
	II	6195
Portuguese		
2315-2400	IX	5955
		6010
		6040
		6070
		9500
		9600
0300-0345	IX	6040
0400-0445	IV	11875
	V	11700
Spanish		
0000-0300	IX	5955
		6010
		6040
		6070
		9500
		9600
0345-0500	IX	6040
Swahili		
0315-0400	IV	11875
	V	11700
1545-1715	IV	15255
	V	15145
		15170
Hindi		
0730-0800	VI	17700
		17740
1130-1200	VI	15115
		17880
		21540
1330-1400	VI	17880
		21540
1500-1530	VI	11975

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ORGANISATION

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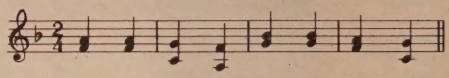
ANN: E: "This is R. Berlin International the Voice of the German Democratic Republic". F: "Ici Berlin International la Voix de la Republique Démocratique Allemande" (Africa Sce: "Ici R. Berlin International, la Voix de la République Démocratique Allemande"). Swedish: "Här är R. Berlin International, Tyska Demokratiske Republikens sänding på svenska". Danish: "De lytter til R. Berlin International, Den Tyske Demokratiske Republik sender på dansk". I: "Qui R. Berlino Internationale, la voce della Repubblica Democratic Tedesca". P: "R. Berlin Internacional, a voz da Republica Democratica Alemana". Sp: "Habla R. Berlin Internacional, la Voz de la República Democrática Alemana" – **INT-SIG:** Theme from GDR National Anthem.



V. by QSL-card – **PUB:** "Funk und Fernsehen" (weekly), free on request.

RADIO VOLGA (for Soviet Armed Forces in Germany)

ADDR: Menselstrasse 5, 15 Potsdam.
STATION: Burg 263kHz 300kW, Königswusterhausen *263kHz 100kW, Burg 908kHz 250kW, Leipzig *1322kHz 150kW. *) relay of R. Moscow Foreign Sce.
D.PRGR: 0500-2230(Sat 2300) – **Own Prgr:** Mon 1700-1900, Tues/Sat 1400-1500, Wed/Fri 1800-1900, Thurs 1630-1900, Sun 0815-1130. Other times relay Radio Moscow.
ANN: "Govorit Volga".

GIBRALTAR (British Colony)

L.T: GMT+1h – **Pr.L:** English, Spanish – **EC:** a/c 50 (yes).

GIBRALTAR BROADC. CORPO. LTD (Comm.)

ADDR: Wellington Front, Gibraltar. **Cable:** Broadcasts.
STATION: Wellington Front 1484kHz 0.5/2kW.
HOME SCE: English, Spanish: 0655-2300. **N: English:** 0700, 0800, 1100, 1230*, 1600, 1800, 2000, 2009*. **Spanish:** 1200, 1300*, 2115. **Wrp:** W 0735, 0755, 1330, 2255 – *) Local N, other times relay BBC.
ANN: "This is Gibraltar" – **V.** by letter. Re. in English or Spanish. Recorded rep. acc – **ALF:** L0-50-0.

BRITISH FORCES BROADC. SCE. GIBRALTAR

is operated by the Ministry of Defence to provide inf. and entertainment as well as a link with home for British Forces stationed in Gibraltar. It is non-comm, does not accept adv.
ADDR: BFBS, Gibraltar, BFPO 52. **Te:** Forces 4575/4443.
L.P: St.Contr: J.W. Nation. Sen.Eng: B.D. Scott. Prgr.Org: D. Davis. Sen.Prod: A.J. Clough.
STATION: 89.4/93.5/97.8MHz all 0.05kW.
D.PRGR: 0545(Sun 0700)-2300. **N:** Mon-Fri 0600, 0700, 1200, 1300, 1600, 1800, 2200; Sat 0600, 0700, 1700, 1800, 2200. Sun 0700, 1800, 2200.
ANN: "This is the British Forces Broadc. Sce. Gibraltar" – **INT-SIG:** "Strings on parade" (Martin) vibraphone or light orchestra – **PUB:** Gibraltar Forces Radio Times (weekly – free).

GREAT BRITAIN

L.T: GMT (Su: GMT+1h) – **Pr.L:** English – **EC:** a/c 50, 240/415V (yes).

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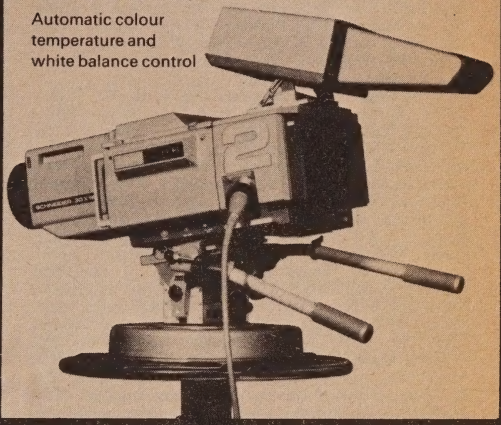
Outstanding stability
Digital control and sync locking systems

LDK25

Low profile
Lightweight multicore cable
Small C.C.U.
Operational flexibility
Automatic colour temperature and white balance control



The Philips Family of Colour Cameras

LDK15

Portable, versatile
Broadcast quality
Triax cable up to 2800 m
High definition viewfinder

Philips family of colour cameras. All the benefits of advanced technology put neatly into practice. New standards of quality – Philips standards – now widely adopted throughout the industry.
New techniques – acclaimed by cameramen, studio technicians and programme producers, for simplified operation, greater manoeuvrability, economy and serviceability.
Many modules are common to all three cameras; and one inch, precision Anti Comet Tail Plumbicon* tubes are used throughout.
All three cameras are suitable for both studio and O.B. work and are fully compatible with each other's base station or C.C.U.
Versatile, flexible and thoroughly reliable, Philips family of colour cameras totally fulfils the requirements of modern TV broadcasting.

**Registered trade mark for television camera tubes.*

Pye TVT Limited
Pye TVT Ltd., Coldhams Lane, Cambridge CB1 3JU
Tel: Cambridge (0223) 45115. Telex: 81103

A member of the Pye of Cambridge Group

ADDR: Broadc. House, London W1A 1AA. **Te:** 01-580 4468. **Telex:** 265781. **Cable:** "Broadcasts".
Studios: External Sce's: 52; BBC domestic: London 42, Reg. 56; Local radio: 40.
L.P: Board of Governors: Sir Michael Swann, FRS (Chairman), Hon. Mark Bonham Carter (Vice-Chairman), Dr. G.T. Hughes, Prof. A. Thompson. W. O'Hara, R. Fuller, CBE, T. Morgan, G. Howard, DL, Lord Greenhill, GCMG, OBE, Mrs. S. Clarke, Philip Chappell, CBE.
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Regional Controllers: Scotland: A. Hetherington. Wales: O. Edwards. N. Ireland: R.T.L. Francis. English Regions: J. Grist.

RADIO 1 (Popular Music Prgr): 0600-0005(Sun 0655-0033). At certain times carries the same prgr. as Radio 2.

	kHz	kW		kHz	kW
Brighton	1214	1	Plymouth	1214	1
Brookmans Park	,,	50	Postwick	,,	1
Burghead	,,	20	Redmoss	,,	2
Droitwich	,,	30	Redruth	,,	2
Fareham	,,	1	Tywyn	,,	0.5
Hull	,,	0.15	Washford	,,	60
Lisnagarvey	,,	10	Westerglen	,,	40
Londonderry	,,	0.25	Bournemouth	1484	2
Moorside Edge	,,	50	Torquay	,,	0.5
Newcastle	,,	2			

N: Mon-Fri 0600, 0630 then every h on the half h until 1830, 1400, 1500, 1600, 1700, 1830, 1900, 2000, 2100, 2200, 2300, 2400; Sat 0600, 0630, 0700, 0730, 0800, 0830 then every h on the half h until 1230, 1430, 1530, 1630, 1730, 2000, 2200, 2300, 2400, 0031; Sun 0700, 0800, 0830 then as Sat until 1230, 1330, 1530, 1630, 2100, 2200, 2300, 2400, 0031 – **Wrp:** 0600, 0630, 0730, 0830, 2400; Sat 0600, 0630, 0700, 0730, 0800, 0830, 1800, 2400; Sun 0700, 0800, 0830, 0930, 2400 – **Big Ben:** 0600.

RADIO 2 (Light Prgr): 0600-0005(Sun 0655-0033). (Radio 2 VHF transmissions carry Radio 1 prgrs. at certain times).

	kHz	kW		kHz	kW
Droitwich	200	400	Glasgow	1484	2
Dundee	1484	2	Redmoss	,,	2
Edinburgh	,,	2			

N: Mon-Fri 0600, 0630, 0700, 0730, 0800 then every h on the h until 1800, 1830, 1900, 2000, 2100, 2200, 2300, 2400; Sat as Radio 1 until 0930, 1000, 1100, 1200, 1300, 1800, 1900, 2000, 2200, 2300, 2400, 0031; Sun 0630, 0700, 0800, 0830, 0930, 1000, 1100, 1200, 1300, 1400, 1600, 1700, 1900, 2100, 2200, 2300, 2400, 0031 – **Wrp:** 0600, 0630, 0700, 0730, 0800, 0900, 1831, 2400; Sat 0600, 0630, 0700, 0730, 0800, 0830, 1800, 2400; Sun 0630, 0700, 0800, 0830, 0930, 2400 – **Shipping Forecast** (200kHz only) Mon-Sat: 0633, 1355, 1755, 0033; Sun 0633, 1155, 1755, 0033.

RADIO 3: Mon-Fri 0700-2330, Sat/Sun 0800-2330.
647kHz: Daventry (150kW), Edinburgh, Glasgow, Newcastle, Redmoss (2kW), Redruth, Swansea ((1kW), Plymouth (0.5kW), Exeter (0.5kW) – **1594kHz:** Dundee (0.25kW).
N, Wrp: Mon-Fri 0700, 0800, 0900, 1300, 1805 (MW only), 2325; Sat 0800, 0900, 1255, 2325; Sun 0800, 0900, 2325.

RADIO 4 (Home Sce): Mon-Thurs 0620-2354; Fri 0620-0004; Sat 0630-2348; Sun 0715-2348.

England	**kHz**	**kW**	**South-West**	**kHz**	**kW**
Barrow	1052	2	Barnstaple	683	2
Bartley	692	10	Exeter	989	1
Bexhill	1052	2	Plymouth	1457	1
Brighton	692	2	Redruth	755	2
Brisco	1052	2	Torquay	854	1
Brookmans Park	908	140	**R. Ulster**		
Clevedon	908	20	Lisnagarvey	1340	100
Cromer	692	2	Londonderry	1340	0.25
Droitwich	1052	150	**R. Scotland**		
Folkestone	1052	1	Burghead	809	100
Hull	908	2	Dumfries	809	2
Moorside Edge	692	300	Redmoss	809	5
Postwick	1052	7.5	Westerglen	809	100
Ramsgate	692	2	**N. Ireland**		
Scarborough	908	2	Belfast	719	0.5
Stagshaw	908	100	Londonderry	719	0.25
Start Point	1052	100	**Wales**		
Stockton	1052	2	Penmon	881	10
Swindon	1340	0.5	Tywyn	881	5
Whitehaven	692	1.3	Washford	881	70
			Wrexham	881	2

N: Mon-Fri 0620, 0700, 0800, 0900, 1000, 1100, 1200, 1300, 1400, 1500, 1600(not Mon), 1800, 1900, 2200, 2330(Mon-Thurs), 2340(Fri); Sat 0630, 0700, 0800, 0900, 1000, 1200, 1300, 1600, 1800, 1900, 2200, 2315; Sun 0800, 0900, 1300, 1600, 1800, 1900, 2100, 2200, 2315 – **Big Ben:** 2200(Sat and Sun).

FM	**MHz**			**kW**
England	**R.1/2**	**R.3**	**R.4**	**ERP**
London and South East				
Oxford	89.5†	91.7†	93.9†	22
Swingate	90.0†	92.4†	94.4†	7
Wrotham	89.1†	91.3†	93.5†	120
Midlands				
Sutton Coldfield	88.3†	90.5†	92.7†	120
East Anglia				
Peterborough	90.1	92.3	94.5	20
Tacolneston	89.7†	91.9†	94.1	120
South				
Rowridge	88.5†	90.7†	92.9	60
West				
Wenvoe	89.95†	96.8†	92.125†	120
South West				
Les Platons	91.1	94.75	97.1	1.5
North Hessary Tor	88.1	90.3†	92.5	60
Redruth	89.7	91.9†	94.1	9
North				
Belmont	88.8†	90.9†	93.1†	8
Holme Moss*	89.3†	91.5†	93.7†	120
North West				
Douglas	88.4	90.6	92.8	6
Morecambe Bay	90.0†	92.2†	94.4†	4
North East				
Pontop Pike	88.5†	90.7†	92.9†	60
Sandale	88.1†	90.3†	94.7†	120
Scotland				
Kirk o'Shotts	89.9†	92.1†	94.3†	120
Ashkirk	89.1†	91.3†	93.5†	18
Forfar	88.7†	90.5†	92.7†	10
Bressay	88.3	90.5	92.7	10
Orkney	89.3	91.5	93.7	20
Thrumster	90.1	92.3	94.5	10
Rosemarkie	89.6	91.8	94.0	12
Fort William	89.3	91.5	93.7	1.5
Melvaig	89.1	91.3	93.5	22
Meldrum	88.7	90.9	93.1	60
Oban	88.9	91.1	93.3	1.5
Skriaig	88.5	90.7	92.9	10
Sandale	88.1†	90.3†	92.5	120
Wales				
Blaenplwyf	88.7	90.9	93.1	60
Haverfordwest	89.3	91.5	93.7	10
Llanddona	89.6	91.8	94.0	12

Wales	MHz R.1/2	MHz R.3	MHz R.4	kW ERP
Llangollen	88.85	91.05	93.25	10
Wenvoe	89.95†	96.8†	94.3†	120
Llandrindod Wells	89.1†	91.3†	93.5†	1.5
Northern Ireland				
Divis	90.1†	92.3†	94.5†	60
Brougher Mountain	88.9	91.1	93.3	2.5
Londonderry	88.3	90.55	92.7	13

Plus 143 low power tr's less 1kW not mentioned.
†) Carries stereophonic programmes.
*) also serves No. West.

BBC Local Radio

Station	kHz	kW	MHz	kW	Pol.
1) R. Birmingham	1457	10	95.6	5.5	H
2) R. Blackburn	854	0.5*	96.4	1.6	S
3) R. Brighton	1484	1	95.3	0.5	H
4) R. Bristol	1546	2*	95.5	5	H
5) R. Carlisle (main)	755	1	95.6	5	H
(relay)	1457	0.5			
6) R. Cleveland	1546	1	96.6	5	H
7) R. Derby (main)	1115	0.5	96.5	5.5	S
(relay)			94.2	0.01	V
8) R. Humberside	1484	2	96.9	4.5	H
9) R. Leeds	1106	1	92.4	5.2	S
10) R. Leicester	1594	0.5	95.1	0.3	S
11) R. London	1457	50	94.9	16.5	H
12) R. Manchester	1457	5*	95.1	4.2	S
13) R. Medway	1034	1	96.7	5.6	H
14) R. Merseyside	1484	2	95.8	7.5	H
15) R. Newcastle	1457	2	95.4	3.5	H
16) R. Nottingham	1520	0.25	95.4	0.3	S
17) R. Oxford	1484	0.5	95.2	4.5	H
18) R. Sheffield (main)	1034	1	97.4	5.2	S
(relay)			88.6	0.05	H
19) R. Solent (main)	998	1	96.1	5	H
(relay)	1594	0.25			
20) R. Stoke-on-Trent	1502	0.5	96.1	2.5	H

NB: Powers marked * will be increased at a later date.

Addresses
1) Pebble Mill Rd, Birmingham B5 7SA.
2) King Str, Blackburn, Lancs BB2 2EA.
3) Marlborough Place, Brighton, Sussex BN1 1TU.
4) 3 Tyndalls Park Rd, Bristol BS8 1PP.
5) Hilltop Heights, Carlisle, Cumberland.
6) 91/93 Linthorpe Rd, Middlesbrough, Teeside.
7) 56 St. Helens Str, Derby DE1 3HY.
8) 9 Chapel Str, Hull HU1 3NU.
9) Merrion Centre, Leeds LS2 8NJ.
10) Epic House, Charles Str, Leicester LE1 3SH.
11) 22 Beaumont Mews, London W.1.
12) P.O. Box 90, Oxford Rd, Manchester.
13) 30 High Str, Chatham, Kent.
14) Commerce House, 13/17 Sir Thomas Str, Liverpool.
15) Crestina House, Archbold Terrace, Newcastle-upon-Tyne NE2 1DZ.
16) York House, York Str, Nottingham NG1 3JB.
17) 242/254 Banbury Rd, Oxford OK2 7DW.
18) Ashdell Grove, 60 Westbourne Rd, Sheffield S10 2QU.
19) South Western House, Canute Rd, Southampton.
20) Conway House, Cheapside, Hanley, Stoke-on-Trent, Staffs ST1 1JJ.

Most st's are on the air at 0600-0005 and broadcast local N. and local prgr's; they also select prgr's from Radio 1, 2 and 4 for rebroadcasts.

O.I.R.T.

Review of the International Radio and Television Organisation (O.I.R.T.):

RADIO & TELEVISION

published in English - French, Russian and German brings every 2 months valuable information on the world of Broadcasting and Television

Subscription: The International Radio and Television Organisation (O.I.R.T.), U Mrázovky 15, Praha 5, Czechoslovakia.

EXTERNAL SERVICES

MW-trs: Orfordness 1×50kW, Crowborough 2×500kW. **SW-trs:** 44 (20×250kW and 24×100kW) as follows: **Wofferton** 6×250kW (G.C: 02.43W/52.19N) – **Daventry** 4×250, 7×100kW (G.C: 01.08W/52.15N) – **Rampisham** 4×250, 2×100kW (G.C: 02.38W/50.48N) – **Skelton** 6×250, 13×100kW (G.C: 02.55W/54.44N) – **Crowborough** 2×100kW (G.C: 00.06E/51.02N).

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3952	6110	7130	7280	9735	11945	17790
3970	6125	7140	7320	9750	11955	17810
3975	6130	7150	7325	9760	12040	17855
5965	6140	7170	9410	9825	12095	17870
5975	6150	7185	9580	9915	15070	18080
5990	6160	7210	9600	11680	15180	21470
6010	6170	7230	9635	11720	15270	21550
6030	6195	7235	9640	11750	15390	21590
6050	7105	7240	9660	11780	15435	21610
6065	7110	7245	9680	11805	17695	21640
6085	7120	7260	9715	11905	17705	21710

The above freqs are shared between the European and Overseas Services and in addition the following freqs are used:

Long- and Mediumwave: European Sces: 200/647/809/1088/1196/1295kHz. **German Sce:** 809/1088/1295kHz(+FM). **Italian Sce:** 1196kHz. **World Sce:** 200/638/720/1088/1322/1410/1412kHz. **Arabic Sce:** 638/701/720/1410kHz. **Hindu and Urdu Sce:** 700/1410kHz. **Persian Sce:** 720kHz.

The columns below show the frequencies which the BBC expect to use during the months from Nov-Feb. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES

C=East Mediterranean Relay; M=Munich; A=Atlantic Relay.

Bulgarian	kHz
0430-0445	3952,6140 7120,9750
1645-1730	6050,7280 9750
2030-2115	6010(C),6050 7130(C),7325 9735

Czech	
0515-0530	1295,3975 6150,9690(C)
0615-0630	1295,3975 6150,7260 9690(C),9825
1430-1500 / 1415-1430 (Sun)	7320 9600 11945
1830-1900 / 1945-2015	1295,3975 6125,7210

English: See World Service.

English by Radio	
0530-0545	647,3952 6140,7120 7260(C),9750
0645-0700	809,1295 6150,7260 9690(C),9825
0730-0745	1088,1295 3952,6195 7230
1130-1215 (Sun)	1088,3952 5975
1230-1300	809,6125 9635,11720 11780,11945 15390
1330-1400	809 (Sun)
1745-1800	809,1088 1295,3952 6195,7110 9770

E. by R.	kHz
1900-1915	5990(C)
2115-2145	720(C) 6070(C) 7140(C)
2230-2245	1295

Finnish	
1530-1600 / 1545-1600 (Sun) / 1600-1630	6125 7210 9580
1930-2000	5990,6065 7110

French	
0530-0545	1088
0630-0700	1088,3975 6195,7230
1115-1215	809,6125 9680,11780
1215-1300 (Sun)	809,1088 3952,5975
1800-1900	1088,6195 7110

German (Also on FM: 90.2MHz)	
0445-0530	809,1088 1295,3952 6195
0545-0600	809,1295 3975,6195 9690(C)
1215-1300	1088,3952 5975
1615-1700	809,1088 3952,6195 9600
1900-2000 / 2030-2115	809,1088 3952,6195

Greek	kHz
1300-1315	11945,15435
	17870
1900-1945	6050,7325
	9735
2230-2300	3975,6050
	7140
Hungarian	
0530-0545	1295,3975
	6150,9690(C)
0630-0645	1295,6150
	7260,9690(C)
	9825
1000-1030 (Sun)	11945,15180
1215-1230	9660,11945
	15180
1400-1415	7320,9635
	11945
1900-1945	1295,3975
	6125,7210
2145-2230	1295,3975
	6125,7260
Italian	
2100-2145	1196(M)
	3975,5990
2145-2200	1196(M)
Polish	
0500-0515	1295,3975
	6150,9690(C)
0600-0615	1295,3975
	6150,7260
	9690(C),9825
1315-1330	7170
1330-1345 (Sun)	9680
	11680
1500-1530	7320,9600
	11945
1745-1830	3975,6125
	7260
2015-2045	1295,3975
	6125,7260
2115-2145	3952,6125
	7260
Portuguese	
1245-1300	9680,11905
	15270
2030-2115	3970,6030
	6130,7210
	11815(A)
Romanian	
0400-0415	3952,6140
	7120
1600-1645	6050,7280
	9635
1945-2000	6010(C),6050
2115-2130	7130(C),7325
	9735
Russian	
0345-0400	647,3952
	5965,6140(C)
	6195,7120

Russian	kHz
0345-0400	7210(C),7260
0445-0500	200,3975
	6030,6140
	7120,7210
	7260,9690(C)
1045-1100 (Sat-Sun)	9715,11805
	12040,15180
	15270,17855
1345-1400	9635,9660
	11680,11780
	15270,15390
1445-1530	6125,7210
1530-1545	7260,9580
(Mon-Sat)	9635,11680
	11780
1530-1600	7260,9635
(Sun)	11680
1630-1745	6085(C),6125
	7185,7210
	7260,9580
	9635
1900-1930	6010,6065
	6085(C),7110
	7230,7260(C)
	9915
2000-2100	5990,6070(C)
	7110,7140
	7230(C),9915
Slovak	
1115-1130	9660,11945
	15390
1600-1615	6195,7320
	9600
2045-2115	1295,3975
	6125,7260
Slovene	
1100-1115	9660,11945
	15390
1530-1600	7320,9600
(Sun)	11945
1800-1830	1295,6170
	7210
Spanish	
1300-1315	9680,11905
	15270
2115-2200	3970,6030
	6120,7235
Turkish	
0515-0530	6140,7120
	7260(C),9750
1815-1900	3952,3989(C)
	5990(C),6050
	7325,9750
Yugoslav	
0500-0515	6140,7120
	9750
1730-1815	6050,7325
	9750
2130-2200	6010(C),6050
	7130(C),7325
	9735

DX-Prgr. German: Wed 2050 on 809kHz(Berlin)+FM. **Finnish:** Last Sun of the month in 1700 transmission.

BBC WORLD SERVICE

TO EUROPE

C=East Mediterranean Relay; A=Atlantic Relay. All frequencies in kHz.

To Northern Europe	
0500-0730	15420(C)
0900-1330	15070
0900-1615	12095
1800-2030	11815(A)
0600-0730	9750(C)
0900-1615	9750
0545-0730	9410
0900-1830	9410
0500-0730	7185
1600-2115	7120
1700-1745	6195
2000-2030	6195
0400-0730	6180(C)
1700-2315	6180(C)
0400-0730	6050
1700-2315	5975
0545-0730	3952
1600-1615	3952
1700-1745	3952
1800-1830	3952
2000-2030	3952
2200-2315	3952
0545-0630	1088
2000-2030	1088
2115-0445	1088
0400-0530	647
0545-0730	647
0400-0430	200

To Western Europe	
0500-0730	15420(C)
0900-1515	12095
1800-2030	11815(A)
0600-0730	9750(C)
0900-1615	9750
1300-1830	9410
0600-0630	7230
0700-0730	7230
0600-0730	7185
1600-2115	7120
0600-0630	6195
0700-0730	6195
1700-1745	6195
2000-2030	6195
0400-0730	6180(C)
1700-2315	6180(C)
0500-0730	6050
0500-2315	5975
0545-0730	3952
1300-1615	3952
1700-1745	3952
1800-1830	3952
2000-2030	3952
2200-2315	3952
0400-0430	1295
0700-0730	1295
0745-0815	1295
1600-1745	1295
2245-2315	1295
0545-0630	1088
0700-0730	1088
0745-1615	1088
1700-1745	1088
2000-2030	1088

To Northern Europe	
0745-1615	1088
1700-1745	1088
2000-2030	1088
2115-0445	1088

To Central Europe	
0500-0730	15420(C)
0900-1515	15070
0900-1615	12095
1800-2030	11815(A)
0600-0730	9750(C)
0900-1615	9750
0545-0730	9410
0900-1830	9410
0500-0730	7185
1600-2115	7120
1700-1745	6195
2000-2030	6195
0400-0730	6180(C)
1700-2315	6180(C)
0400-0730	6050
1700-2315	5975
0545-0730	3952
1600-1615	3952
1700-1745	3952
1800-1830	3952
2000-2030	3952
2200-2315	3952
0545-0630	1088
2000-2030	1088
2115-0445	1088
0400-0530	647
0545-0730	647
0400-0430	200

To Western Europe	
0500-0730	15420(C)
0900-1515	12095
1800-2030	11815(A)
0600-0730	9750(C)
0900-1615	9750
1300-1830	9410
0600-0630	7230
0700-0730	7230
0600-0730	7185
1600-2115	7120
0600-0630	6195
0700-0730	6195
1700-1745	6195
2000-2030	6195
0400-0730	6180(C)
1700-2315	6180(C)
0500-0730	6050
0500-2315	5975
0545-0730	3952
1300-1615	3952
1700-1745	3952
1800-1830	3952
2000-2030	3952
2200-2315	3952
0400-0430	1295
0700-0730	1295
0745-0815	1295
1600-1745	1295
2245-2315	1295
0545-0630	1088
0700-0730	1088
0745-1615	1088
1700-1745	1088
2000-2030	1088

To Western Europe	
2115-0445	1088
1300-1330	809
0400-0530	647
0545-0630	647
0400-0430	200

To So. West Europe	
0900-1615	15070
0700-0730	12095
0900-1745	12095
0900-1515	9760
0600-0730	9580
1430-0030	9410
0500-0730	7185
1745-2330	7185
2245-0030	7130
0500-0730	5975
1700-0030	5975
0500-0730	3970
2000-2030	3970
2200-2315	3970
0545-0630	1088
0700-0730	1088
2000-2030	1088
2115-2400	1088

To USSR	
0900-1130	21610
0900-1330	17790
0500-0730	15420(C)
0900-1615	15070
0900-1615	12095
0545-0730	9410
0900-1830	9410
0400-0430	7210(C)
0545-0730	7120
0400-0630	6180(C)
1700-2115	6180(C)
0300-0630	6050
1700-2115	5975
0300-0330	3952
1800-1830	3952
2000-2030	3952
0300-0330	647
0400-0430	647

To So. Ea. Europe	
0900-1130	21710
0900-1330	17790
0500-0730	15420(C)
0700-0730	15070
0900-1615	15070
0900-1745	12095
1800-2030	11815(A)
0600-0730	9750(C)
0900-1615	9750
0400-0730	9410
1500-2315	9410
0300-0730	7185
1600-2315	7120
0400-0730	6180(C)
1700-2315	6180(C)
0300-0630	6050
1700-1815	3989(C)
2000-2115	3989
0300-0330	3952
0545-0630	3952
1800-1830	3952
2000-2030	3952
2200-2315	3952

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TO OVERSEAS COUNTRIES

C=East Mediterranean Relay; T=Far Eastern Station; A=Atlantic Relay; E=Eastern Relay Station; S=Sackville Relay; G=Greenville; W=Caribbean Relay.

To Australasia and Pacific Islands

0900-1330	15310(T)
2000-2245	15260(A)
0900-1330	15070
0700-0915	11955
0900-1330	11750(T)
2000-2245	11750
0900-1330	9740(T)
0900-1130	9670(T)
0545-0915	9640
2200-2245	9570(T)
2000-2245	9410
0545-0915	7150
2000-2115	7120
1100-1330	6195(T)
0545-0730	5975
2000-2115	5975

To East Asia

0900-0945	17880(T)
0000-0030	17880(T)
2300-0030	15435(T)
0900-1130	15280(T)
2200-0030	11955(T)
0900-1430	11750(T)
0900-1430	9740(T)
0900-1130	9670(T)
2200-2315	9580(T)
2200-2315	7120(T)
1100-1430	6195(T)
2200-2315	6195(T)

To So. Asia/Iran

0900-1230	15420(C)
0900-1615	15310(T)
0000-0030	11955(T)
1600-1830	11955(T)
0900-1615	11750(T)
0900-1830	9740(T)
0300-0830	9690(C)
0900-1130	9670(T)
0400-0430	9605(C)
1645-1830	7180(T)
0000-0330	7140(C)
2300-0030	7120(C)
2200-0030	6195(T)
1100-1830	6195(T)
0030-0315	6195
0000-0030	6140(C)
0000-0330	3952
1700-2030	1412(E)
0000-0030	1410(E)
0200-0315	1410(E)
1300-1430	1410(E)

To South East Asia

0900-0945	17880(T)
0000-0030	17880(T)
2300-0030	15435(T)
0900-1130	15280(T)
2200-0030	11955(T)
0900-1615	11750(T)
0900-1615	9740(T)
0900-1130	9670(T)
2200-2315	9580(T)
2200-0030	7120(T)
0900-1615	6195(T)
2200-0030	6195(T)
1500-1615	3915(T)

To Indonesia

0900-1615	11750(T)
0900-1615	9740(T)
0900-1130	9670(T)
2200-0030	9570(T)
2200-0030	7120(T)
2200-0030	6195(T)
0900-1615	6195(T)
1500-1615	3915(T)

To Singapore/Malaysia

0900-1230	21660(C)
0900-1130	17695
0900-1615	15070
1100-1615	12095
1300-1615	9410
2200-0030	5975

To Middle East

0900-1330	21710
0900-1330	17790
0900-1230	15420(C)
1300-1615	15310(T)
0700-1615	15070
1100-1745	12095
1800-2030	11815(A)
0600-1330	11760(C)
0545-0730	11750
1500-1615	11750(T)
0300-0330	9690(C)
0400-0430	9605(C)
0300-0830	9410
1300-2245	9410
0300-0330	7140(C)
0300-0630	6050
0300-0430	5975
1700-2115	5975
1700-1815	3989(C)
2000-2115	3989(C)
0300-0330	3952
1800-1830	3952
2000-2030	3952
2200-2245	3952
1700-2030	1412(E)
0300-2245	1322(C)
0300-0315	720(C)
0545-0630	720(C)
0300-0330	638(C)
0545-0730	638(C)
0900-1200	638(C)
2000-2315	638(C)

To East Africa

0900-1245	21660(C)
0900-1330	21470
0600-0730	17885(C)
0900-1615	17885(C)
1500-1530	17695
0500-0730	15420(C)
0900-1745	15420(C)
1600-1745	15400(A)
1500-1530	15105(C)
1645-1815	15105(A)
0700-0730	15070
1300-1830	15070
1745-2030	11815(A)
0400-0430	11750(C)
0545-0730	11750
1700-2115	11750
0300-0630	9580(A)
1700-1745	9540(C)
0400-0630	9410
1500-2115	9410
0300-0630	7185
1700-2115	7120
0300-0430	7105(A)
1745-2030	6180(C)
0330-0400	6005(A)
0300-0430	5975
0300-0330	3952
1700-2030	1412(E)

To Southern Africa

1030-1615	21710
0600-0730	17885(C)
0900-1615	17885(C)
0500-0730	15420(C)
0730-1745	15400(A)

To Southern Africa

0800-0915	15070
1430-1830	15070
0600-0730	11860(A)
1745-2030	11815(A)
0400-0430	11750(C)
0545-0630	11750
1700-2115	11750
1615-1645	11740(A)
1700-1745	9695(A)
0400-0630	9580(A)
1600-2245	9410
0500-0545	7270(A)
0400-0545	7185
1700-2245	7120
0400-0730	6005(A)
2000-2115	6005(A)

To North Africa

1030-1330	21470
0900-1515	17705
0800-1830	15070
0700-0815	12095
0900-1745	12095
0545-0730	11750
1700-2030	11750
0400-0815	9410
1300-2315	9410
0400-0730	7185
1700-2315	7120
0500-0730	5975
1700-2315	5975
2000-2030	3952
2200-2315	3952

To No. We. Africa

1030-1430	21710
0900-1615	17705
0800-1830	15070
0700-0815	12095
0900-1745	12095
1745-2115	11750
0500-0730	9580
1430-0030	9410
0500-0730	7185
1745-2330	7185
2245-0030	7130
0500-0730	5975
1745-0030	5975

To West and Central Africa

1030-1615	21710
0900-1645	17705
0730-1745	15400(A)
0800-1830	15070
0600-1130	11860(A)
1745-2030	11815(A)
1600-1745	11770(A)
0545-0730	11750

To W. and Ce. Africa

1745-2115	11750
0500-0515	9600(A)
0600-0630	9600(A)
0700-0815	9600(A)
0400-0730	9580(A)
1700-2245	9410
0630-0700	7210
0400-0730	7185
0400-0430	7105(A)
0500-0515	7105(A)
0600-0630	7105(A)
0600-0700	6110
0400-0730	6005(A)
1800-2245	6005(A)

To South America

2000-0315	15260(A)
2115-2330	11750
2245-0330	9915
2300-0330	9580(A)
0030-0330	9510(G)
2245-0330	5975

To Central America Caribbean

1500-1615	17840(A)
1600-1745	15365(S)
2000-0315	15260(A)
1100-1330	15070
2000-2245	11750
1100-1330	11750(T)
2000-2300	9580
2300-0330	9580(A)
2300-0030	9510(S)
0030-0330	9510(G)
1100-1330	6195(W)
2000-2115	6195(W)
0300-0430	6175(S)
0430-0730	6175(W)
2200-0330	5975

To Canada/USA/Mexico

1500-1615	17840(A)
2000-0315	15260(A)
1600-1745	9580(S)
2300-0330	9580(A)
2300-0030	9510(S)
0030-0330	9510(G)
2245-0330	7325
2300-0430	6175(S)
0430-0730	6175(W)
1100-1330	5990(S)
2115-0430	5975

To Atlantic Islands/ Antarctica

2245-0330	9915
2245-0330	7130
2245-0330	5975

Additional transmissions

Freq's in bold=Atlantic Relay: C=East Mediterranean Relay; E=Eastern Relay. a) Sun.

To Africa	kHz
0330-0400	**6005,7105 9580**
0500-0545	**6005,7270**
0630-0700	**6005,**6110 7210,**11860**
0730-0800	**9600,11860 15400**
0815-0900(a)	**9600**
1500-1530	15105(C),17695

To Africa	kHz
1615-1645	**11740,11770 15400,**17705
1700-1745	9540(C),**9695 11770,**15420(C) **15400**

To Asia

0145-0230	3952,6195(C) 7140(C)
0200-0230	1410(E)

N: 0000, 0200, 0300, 0400, 0500, 0600, 0700, 0800, 0900, 1100, 1300, 1400(Sat), 1600, 1700, 1800, 2000, 2200, 2300. **Commentary:** 1309(Sat/Sun), 1609, 2009(Sat/Sun), 2309. **N. about Britain:** 0009, 0309, 0709(Sat/Sun), 1109, 1809. **R. Newsreel:** 0015, 0215(Asia), 1200(W), 1500, 1815 – **Review of the British Press:** 0209, 0509(Sat/Sun), 0909 – **The World Today:** Mon-Fri 1645, 2209 and repeated next day 0145(Asia)(exc. Sat), 0315, 0545, 0915 – **Letterbox:** Fri

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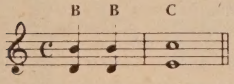
BBC MONITORING SERVICE, CAVERSHAM PARK, READING RG4 8TZ, ENGLAND

1415, Sat 0515, 2315, Sun 2015 – **World Radio Club:** Wed 1330, 2315, Fri 2100, Sun 0815.
News of the African World (Africa): 0330, 0509(Mon-Fri), 0515(Sat/Sun), 0630, 0730, 1709(Sat/Sun), 1725(Mon-Fri) – **Listeners' Record Requests:** 0630(Sat/Sun), 0830(Sun), 1215(Tues), 1345(Sun/Fri), 2030(Tues), 2115(Fri). **Outlook:** Mon-Fri 1515, 1900, Tues-Sat 0115 – **24 Hours:** Mon-Fri 0509, 0709, 1309, 2009 – **Stock Market Report:** Mon-Fri 1942.
The BBC World Financial Service is also re-broadcast by the Eastern, Far Eastern, East Mediterranean, Middle East, Atlantic and Caribbean relays (see the respective stations).
N: Mon-Fri 2225, Tues-Sat 0345, 0445, 0930.
GREENWICH TS is usually broadcast at the start of prgrs on the h – **Big Ben** is used occasionally throughout the day – **INT-SIG:** World Service: Tune: Oranges and Lemons. World Sce. for Africa and other services: 3 notes (BBC in tonic scale).



OTHER OVERSEAS SERVICES

Freqs in bold types=Atlantic Relay; C=East Mediterranean Relay; T=Far Eastern Station; E=Eastern Relay Station; W=Caribbean Relay; DX=Dixon; DL=Delano.

ARABIC SERVICE kHz

0345-0545 638(C),701(E) 720(C) 3975(to 0445) 7140(C), 7325 9825,9590(C) 11740(C)
1300-2000 638(C) 6120(C),9825
1300-1615 720,7140(C) 11720(C)
1300-1630 15180
1300-1730 9640(C)
1600-2000 701(E)
1900-2000 3989(C)
1700-2000 720(C)
1700-2000 7140(C)

To Algeria/Morocco/Mauritania kHz

0445-0545 6085,7325
1300-1630 12040,15180
1630-1730 9825,12040
1730-2000 7140,9825

ENGLISH
To Mauritius
1000-1015 21590 (altern.Mon)

Falkland Island Service
2200-2245 9915,12040 (Sun)

ENGLISH BY RADIO (Far Eastern Station)
2330-2345 3915,6080 7180,9725
0030-0045 6080,7180 9725,17880
0930-0945 7180,9725 11955
1245-1300 3915,7180 9725
1630-1645 6050,7180 11910

MALTESE
1650-1655 7245,11680

FRENCH (to Africa)
0430-0445 6110,7105 7130,**9600**
0515-0545 9915
0630-0700 **7105,9600**
1200-1330 **15105,**17810 21640
1815-1915 **9580,15105**

HAUSA
0545-0600 6110,**7105** 7210,**9600** 9915
1345-1415 **15105,**17810 21640
1915-1945 **9580,15105**

PORTUGUESE
1415-1430 **15105,**17810 **17865,**21640

Portuguese
2030-2115 6030,**9700** 9825,**11815**

LATIN AMERICAN SERVICE.
Portuguese
2200-0015 6110,9600 9560(W) **9765,11820**

Spanish
0015-0215 6110,9600 9745(W) **9765,11820**
0215-0415 6010(DX),9600 9745(W),**9765** 11820(DL)

EAST AFRICAN SERVICE
Somali
1430-1500 15105(C) 17695
1800-1815 9670(C),9915 15420(C)
1815-1830 9670(C) 15420(C)

Swahili
0330-0345 3975,6080 7240
1530-1600 15105(C) 17695
1745-1800 9540(C),9915 15420(C)

ASIAN SERVICE
Bengali
0030-0050 3975,5965 6140,7275(C) 7230,9590(T) 9825,11955(T)
0930-1000a 18080,21550
1345-1430 6050(T) 7180(T),9915 11910(T)

Bengali	kHz
1445-1500e	6050(T) 9590(T)
1615-1645a	6065/11750(T)
Burmese	
0015-0030	6080(T),5965 7180(T),7230 9725(T),9825
1330-1415	3915/6050(T) 9590(T),17695
Cantonese	
2245-2300	3915/6010(T) 6160,7180(T) 9725(T)
1300-1330	6050/7180(T) 9915,18080
Chinese	
2230-2245	3915/6010(C) 6160,7180(T) 9725(T)
0945-1000	7180/9725(T) 11955(T)
1000-1030	3915/7180(T) 9725/11955(T) 18080,21550
1200-1245	3915/7180(T) 9725/11955(T) 18080
Hindi	
0050-0110 } 0140-0200 }	1410(E),3975 6140(C),5965 7275(C),7230 9825
1330-1345	6065/7180(T) 9915,11910(T)
1430-1515	1410(E) 6065(T) 7180(T),9915 11910(C)
1600-1615	1410(E) 6050(T) 7180(T),9915 11910(T)
1615-1630	6050/7180(T) 11910(T)
Indonesian	
2315-2330	3915/6080(T) 6160,7105 7180/9725(T) 9825
1030-1100	3915/7180(T) 9725/11955(T) 18080,21550
1300-1330	3915/6065(T) 11910(T),17695

Japanese	kHz
2200-2230	6010(T),6160 7180/9725(T)
1100-1130	7180/9725(T) 11955(T),18080 21550
Malay	
1130-1145	17695,21610
Nepali	
1445-1500f	6050/9590(T)
Persian	
0315-0330	720(C),1412(E) 3975,6080 6195/7230(C) 7240,9590(C) 9825
0930-1000	15125(C),15390 17870,21590
1615-1700	720(C) 1412(E) 7140/9540(C) 9915
Tamil	
0930-1000d	18080,21550
1615-1645d	6065/11750(T)
Thai	
2345-2400	6080(T),6160 7105,7180(T) 9725(T),9825
1215-1300	6050/11910(T) 17695
Urdu	
0110-0140	1410(E),3975 5965,6140(C) 7230,7275(C) 9825
1515-1600	1410(E) 6050(T) 7180(T),9915 11910(T)
Vietnamese	
2300-2315	3915/6010(T) 6160,7180(T) 9725(T)
1130-1200	3915/7180(T) 9725/11955(T) 18080,21550
1415-1445	3915/6050(T) 9590(T)

a) Wed; b) Sat; c) Tues and Fri; d) Sun, Mon, Thurs; e) Tues, Thurs, Sat; f) Mon, Wed, Fri; g) not Sat. **For various relay sts:** See Ascension Island, Cyprus, Oman and Malaysia.

FI: The revenue for its Domestic Sces is drawn from licence fees paid by viewers; the revenue for its External Sces is provided by a Grant-in-Aid from the Treasury.

INDEPENDENT BROADCASTING AUTHORITY

ADDR: 70 Brompton Road, London SW3 1EY. **Te:** 01-584 7011. **Telex:** 24345.

L.P: Chmn: Lady Plowden. DBE. Dir.Gen: Sir Brian Young. Dir. of Radio: John Thompson.

STATIONS: All st's commercial.

	kHz	kW	MHz	kW	Station
1)	989	0.1	97.2	1.0	Beacon Radio
2)	998	0.2	96.2	0.3	R. Trent
3)	1025	1.0	96.0	1.0	Downtown Radio
4)	1151	5.5	97.3	2.0	London Bc. Co.
5)	1151	2.0	95.1	3.4	R. Clyde
6)	1151	0.8	94.8	2.0	BRMB Radio
7)	1151	0.35	97.0	2.0	Piccadilly Radio
8)	1151	1.0	97.0	5.0	Metro Radio
9)	1151	0.5	96.0	1.0	Plymouth Sound
10)	1169	0.8	95.1	1.0	Swansea Sound
11)	1169	0.5	95.0	2.0	R. Tees
12)	1169	0.2	95.0	0.2	R. Victory
13)	1169	0.3	97.1	1.0	R. Orwell
14)	1277	0.1	96.0	0.5	Pennine Radio
15)	1430	0.1	97.0	0.25	Thames Valley Bc.
16)	1546	27.5	95.8	2.0	Capital Radio
17)	1546	0.3	95.2	0.1	R. Hallam, Sheffield
			95.9	0.05	R. Hallam, Rotherham
18)	1546	1.0	96.7	5.0	R. City
19)	1546	2.0	96.8	0.5	R. Forth

Addresses and other information

1) P.O. Box 303, Wolverhampton WV6 0DQ – Chmn: Alan Henn. Man.Dir: J. Oliver. Chief Eng: B. Warburton.
2) 29-31 Castle Gate, Nottingham NG1 7AP – Man.Dir: D.P. Maitland, Chief Eng: G. Woodward. 0500-2300.
3) Kiltonga Radio Centre, P.O. Box 293, Newtownards, Co. Down, Northern Ireland – Man.Dir: D. Hannon. Chief Eng: H.V. Reilly.
4) Communications House, Gough Square, London EC4P 4LP – Man.Dir: P. Gallagher DFC. Chief Eng: Roger Francis. 0500-2400.
5) Ranken House, Blythswood Court, Anderston Cross Centre, Glasgow G2 7LB – Man.Dir: J. Gordon. Chief Eng: J. Lumsden. 0500-0100.
6) P.O. Box 555, Radio House, Birmingham B6 4BX – Man.Dir: D. Pinnell. Chief Eng: D. Wood. 0400-0100.
7) 127-131 The Piazza, Piccadilly Plaza, Manchester M1 4AW – Man.Dir: Ph. T. Birch. Chief Eng: P. Thompson. 24h.
8) Newcastle upon Tyne NE99 1BB – Man.Dir: N. Robinson. 0500-0100.
9) Earl's Acre, Alma Rd, Plymouth PL3 4HX – Man.Dir: R.B. Hussell. Chief Eng: T. Mason. 0500-2300.
10) Victoria Rd, Gowerton, Swansea SA4 3AB – Man.Dir: Charles Braham. Chief Eng: S. Horobin. 0558-0100.
11) 74 Dovecot Str, Stockton-on-Tees, Cleveland – Man.Dir: J. Bradford. Chief Eng: C. Kennedy. 0500-2300.
12) P.O. Box 257, Portsmouth PO1 5RT – Man.Dir: G. Paine. Chief Eng: R. Tollerfield.
13) Electric House, Lloyds Ave, Ipswich IP1 3HU – Man.Dir: D. Brooks. Chief Eng: R.G. Allison.
14) P.O. Box 235, Pennine House, Forster Square, Bradford BD1 5NP – Man.Dir: S. Whitehead. Chief Eng: J. Orson. 0500-0100.
15) P.O. Box 210, Reading RG3 5RZ – Prog. Contr: N. Ffrench Blake. Chief Eng: P. Atkinson.
16) Euston Tower, London NW1 3DR – Man.Dir: J. Whitney. Chief Eng: G. O'Reilly. 24h.
17) P.O. Box 194, Hartshead, Sheffield S1 1GP – Man.Dir: William S. MacDonald. Chief Eng: Derrick Connolly. 0400-0100.
18) P.O. Box 194, 8-10 Stanley St, Liverpool L69 1LD – Man.Dir: T. Smith. Chief Eng: P. Duncan. 24h.
19) Forth House, Forth Str, Edinburgh EH1 3LF – Man.Dir: C. Lucas. Chief Eng: I. Wales. 0500-2400.

Independent Radio News – Subsidiary of London Broadcasting Company which acts as a news agency for all Independent Local Radio companies. Address as LBC.

BRITISH FORCES BROADC. SCE. (Head Office)

Responsible for the operation of the BFBS on behalf of the Ministry of Defence. Administers overseas sts in Germany, Cyprus, Malta, Gibraltar, Singapore and Hong Kong. Produces between thirty and thirty-five hours weekly of recorded prgrs of light and serious music, spoken word and other prgr. material for use by the overseas sts with the aim of providing a broadcast service of entertainment, information and education, and a link with home. Provides live stage and cabaret entertainment for the Forces overseas.

ADDR: King's Buildings, Dean Stanley St, London, SW1P 3HX. **Te:** 01-828 5646.

L.P: Dir: I.J. Woolf. Chief Eng: P.I.K. Woodford.

STATIONS: See under Germany (FR), Cyprus, Malta, Gibraltar, Hong Kong.

ANN: "This is the British Forces Broadc. Sce . . ." (Name of country or town) – **INT-SIG:** "Strings on Parade" (Martin), vibraphone or light orchestra – **V.** by QSL-card to individual station. Rp.

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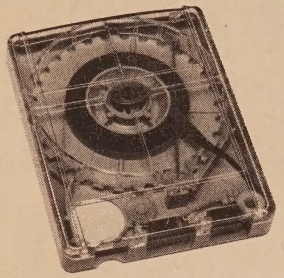

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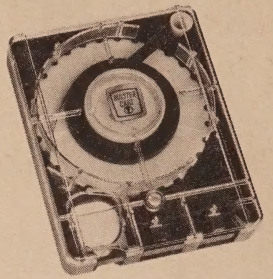

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MANX RADIO (Comm.)

Licensed by the GPO on behalf of the Isle of Man Gov.
ADDR: Douglas Head, Douglas, Isle of Man. **Te:** 3277.
STATIONS: 1295kHz 1/0.2kW (daylight) – 1594kHz 1/0.2kW (dawn-and-dusk)* – 89MHz – 91.2MHz.
D.PRGRS: 0700-1900. After 1900 Rlg. prgrs. on 89/91.2MHz and 1594kHz only; closedown varies from 1915 to 2200. *) also used from 1000 for rlg. prgrs.
ANN: "This is Manx Radio on 188 and 232 MW, also broadc. in the VHF band on 89 and 91.2MHz from Isle of Man".

VOICE OF AMERICA RELAY STATION IN GREAT BRITAIN

ADDR: Voice of America, Washington DC 20547, USA.
STATIONS: Crowborough 1×600kW MW-tr. & Wofferton 2×250kW tr's are operated by the BBC: 0200-0800, 1200-2200.

Nov-Feb		Mar-Apr	
kHz	Times	kHz	Times
1295	2100-2200	6060	0600-0630
5965	1700-2130	6080	0500-0600
6040	0300-0700	6160	0300-0500
6095	1500-2200		0530-0800
6160	0300-0500		1630-2200
6180	0200-0400	6180	0200-0400
7155	1730-1800	7180	2000-2200
7165	1400-1630	7200	0300-0700
7180	1600-1730	7325	0600-0700
7200	0300-0700	9530	1730-1900
7205	2130-2230	9555	0530-0800
7325	0600-0700	9620	2000-2200
9515	1900-2100	9735	1630-1730
9555	0600-0800	9750	1900-2000
9620	1400-1630	9760	1600-1930
9700	0530-0600	11710	1500-1800
9715	1400-1600	11805	1400-1600
9760	1200-1500	11915	1600-1800
11840	1200-1500	11960	1400-1630
Mar-Apr		15160	1200-1500
5965	1900-2130	15195	1400-1600
6040	0300-0700		
	1700-2200		

G.C: 02.43W/52.19N.
D.PRGR: See USA.
ANN: "This is the Voice of America" is announced in the language of the programme in which it is given and in English. Station identification is in English: "You are listening to the Voice of America in Washington DC" – **V.** by QSL-card. No Rp.

GREECE

L.T: GMT+2h (In: GMT+3h) – **Pr.L:** Greek. **EC:** a/c 50 220V (yes).

ELLINIKI RADIOPHONIA TILEORASSI (EPT-Gov.)

(Hellenic Radio-Television).
ADDR: P.O. Box 19, Aghia Paraskevi, Athens. **Te:** 6595970. **Cable:** Radiostathens. **Telex:** 216066.

L.P: Pres. of the Adm. Council: G. Economopoulos. Dir.Gen: J. Lampsas. Dir.Prgrs: M. Hadjidakis. Dir.Tech. Services: A. Casmas. Dir.Pub.Rel: G. Tsoutsias.

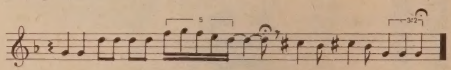
STATIONS	kHz	kW		kHz	kW
Athens (Nat)	728	150	Comotini*	1403	5
Athens (2'Prgr)	1385	50	Volos*	1484	1
Athens (3'Prgr)	665	15	Rhodes*	1493	5
Zakynthos*	926	50	Patras*	1511	0.25
Corfu*	1007	50	Chania*	1511	5
Thessaloniki*	1043	50	Amalias*	1512	1.25

*) relay and reg. prgrs.

FM (3rd prgr. in stereo):

Location	kW	Nat.	2nd	3rd
Thessaloniki	10	88.0	90.0	92.0
Pilion Mt. (Volos)	10	92.8	94.8	96.8
Alexandroupolis	3	89.8	91.8	–
Kalamata	3	92.2	94.2	–
Chania	3	92.9	94.9	–
Kavala	10	89.2	91.2	–
Kastoria	10	88.6	90.6	–
Kefalinia Isl.	10	96.9	98.9	–
Thira Isl.	10	96.9	98.9	–
Gerania Mt. (Corinth)	3	97.9	99.9	–
Corfu Isl.	3	91.8	93.8	–
Rhodes Isl.	3	88.4	90.4	–
Mytilini Isl.	3	92.3	94.3	–
Tripolis	10	88.3	90.3	–
Heraklion	3	94.4	96.4	–
Ioannina	3	97.8	99.8	–
Parnis Mt. (Athens)	10	91.6	93.6	95.6

HOME SCE: Nat. Prgr: Mon-Fri 0355-0805, 1030-2305; Sat 0355-2305; Sun 0430-2305.
N: W 0400, 0500, 0530(E/F/G), 0800, 1100, 1230, 1500, 1800(Newsreel), 1930, 2200, 2300; Sun 0500, 0515(E/F/G), 0800, 1000, 1230, 1600, 1800(Newsreel), 1930, 2200, 2300.
Wrp: W 0430(Gr/E), 1330; Sun 0435(Gr/E), 1330; D at the end of News in E/F/G. **Rlg. (Orthodox):** Sun 0530-0800.
2nd Prgr (Light prgr. mainly): 0455(Sat 0755)-2300.
N. W: Every h on the h; Sun 0500, 0800, 1000, 1200, 1600, 1900, 2200.
3rd Prgr (+FM stereo): 1600-2300 (serious & cultural prgrs).
Special Night Prgr. on 1385kHz (+FM 2nd prgr): 2300-0400(daily). **N:** On the h.
ANN: Nat. Prgr: Gr: "Elliniki Padiophonias Tileorassi, Ethniko Proghramma". E: "This is the Hellenic Radio-Television in Athens". F: "Ici Athènes, Radio-Télévision Hellénique". G: "Hier ist der Hellenische Radio- und Fernsehfunk". Second Prgr: "Déftero Proghramma". Third Prgr: "Trito Proghramma". Special Night Prgr: "Radiophonikos Stathmos Athinon. Akoute tin Idiki Nichterini Ekpombi".
Station Signal (Nat. & 3rd prgr): The opening notes of the Greek folk song "Tsopanakos imouna" played on flute and sheep bells:



2nd Prgr: Harp and 9 electronic notes.
V. by QSL-card. Rec. rep. preferred – **PUB:** "Radiotileorassi" (weekly in Greek).

FOREIGN SERVICE ("The Voice of Greece")

STATIONS: Avlis 2×100kW (G.C: 23.36E/38.23N). Thessaloniki 1×35kW (G.C: 22.57E/40.31N).

kHz	kHz	kHz	kHz	kHz
5960	7215	9750	11875	17830
6140	7280	9760	11925	
6175	9710	11760	15345	

Times	Areas	kHz
0000-0150	No. America	9750,9760,11875
0200-0350	No. America	9750,9760,11875
0400-0450	Arabia/Indian Ocean	7215,9760,11760
0500-0615	Cyprus/Turkey/M. East	6175,7215,9760
0600-0830*	Europe	9710
0630-0730	Europe	7215,9760,11760
0800-0850	Azores	7215,9760
0900-0950	Australia	9530,15345
1000-1050	Japan	9530,15345
1100-1430	Europe	9710
1100-1120	Cyprus/Turkey/M. East	6175,7215
1130-1150	Egypt/Libya	7215,9760
1200-1250	No. America	15345, 17830
1300-1350	Central Africa	11760,15345,17830
1400-1450	Arabia/Indian Ocean	7215,9760
1400-1450	Tashkent	9615
1500-1550	No. America	11760,15345,17830
1600-1700	Balkan States	5960,6140,7215

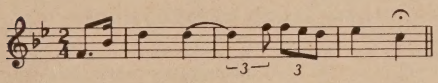
Times	Areas	kHz
1715-1750	USSR	7215,9715,11760
1800-1850	South Africa	11925,15345,17830
1900-1950	Europe	6140,7215,9760
1930-2030	Europe	7280
2000-2050	Balkan States	5960,7215
2100-2150	Australia	6140
2200-2250	South America	6140,9760
2300-2350	Panama Canal Zone	9750

*) Sun only (Rlg. Orthodox).

N. Greek: 0000,0200, 0400, 0500, 0630, 0800, 0900, 1000, 1100(Europe only), 1200, 1300, 1400, 1500, 1715, 1800, 1900, 1930, 2100, 2200, 2300. **English:** 0015, 0215, 0715, 0915, 1015, 1215, 1515, 1815, 1920, 2115. **French:** 0030, 0700, 1230, 1315, 1930. **German:** 1940. **Spanish:** 2230, 2315. **Portuguese:** 2215. **Turkish:** 0515, 1100. **Arabic:** 1130, 1415. **Albanian:** 1600, 2000. **Serbo-Croat:** 1615, 2010. **Bulgarian:** 1630, 2020 **Rumanian:** 1645, 2030. **Russian:** 1730.
ANN: Gr: "Edo Athine. Elliniki Radiophonia Tileorassi". E: "This is Athens. You are listening to the Voice of Greece". F: "Ici Athèns. La Voix de la Grèce". G: "Hier ist Athene. Sie hören die Stimme Griechenlands". **INT-SIG:** See Home Sce – **V.** by QSL-card. Rec. rep. Preferred – **PUB:** "Radiotileorassi" (weekly in Gr.).

YPIRESSIA ENIMEROSSEOS ENOPLON DHYNAMEON (YENED)

(Hellenic Armed Forces Info. Sce.)
ADDR: 136 Messogion Str, Athens. **Te:** 701911.
L.P: Dir.Gen: S. Varvaroutsos. Tech.Mgr: E. Tsamoussis.
CENTRAL STATION (Athens): 953kHz 200kW – 6045kHz 5kW.
HOME SCE: W 0345-1310, 1330-2400. Sun 0345-2400. **N:** W on the h exc. 1300; Sun 0500, 0800, 1200, 1800, 1900(Newsreel), 2100. **N. in English/French:** 1300(W), 2105(daily). **Rlg. (Orthodox):** Sun 0530-0800.
ANN: Greek: "Edho Athinai, Radiophonikos Stathmos Ypriressias Enimerosseos Enoplon Dhynameon" or "Radiophonikon Dhiktion YENED. E: "This is Athens, R. St. of Hellenic Armed Forces Information Service". French: "Ici Athènes, Station Radiophonique des Forces Armeés Helleniques Serice des Informations". **STATION-SIG:** The main motif from the march "Greece never dies" played on trumpets.



YENED RELAY REGIONAL STATIONS:

Location	kHz	kW	Location	kHz	kW
Larissa	944	5	Florina	1277	10
Heraklion	980	10	Kozani	1313	1
Ioannina	1142	10	Tripolis	1316	10
Orestias	1079	10	Kavala	1355	1
Thessaloniki	1178	50	Serrae	1303	1
			Pyrgos	1349	4

D.PRGR: W 0500-0700, 1000-1300, 1500-2100; Sun 0500-1300, 1500-2100 (times are approx). **V.** by letter. Rec. acc.

PYRGOS BROADCASTING STATION (YENED)

ADDR: 16 Diakou Str, Pyrgos Ilias, Western Peloponnesus.
Te: 2550. **Cable:** "Radio Pyrgos".
STATION: 1349.5kHz 4kW.
HOME SCE: 0430-1330, 1445-2200. **Night Prgr:** 2300-0300.
ANN: E: "This is the Pyrgos Broadc. St, R. St. of the Hellenic Armed Forces".

OTHER PRIVATE STATIONS

Messolongion	1070kHz 0.3kW
Agrinion	1200kHz 0.5kW
Aegion	1610kHz 0.5kW

AMERICAN FORCES RADIO & TV SCE:

1) Athens 1594kHz 1kW, Kato Souli 1484kHz (repeater).
2) Iraklion 1570kHz 0.25kW.
ADDR: 1) US Air Force, OL-C Detachment 5, 7122nd Broadc. Sq. APO, New York 09223: St.Mgr: Larry B. Malinowski MSgt, USAF. 2) Dept. of the Air Force, 7122nd Broadc. Sq. OL-D Detachment 5, APO, New York 09291.
L.P: St.Mgr: R. Maynard. SMSgt, USAF.
D.PRGR: 24h.

VOICE OF AMERICA RADIO STATION AT KAVALA

ADDR: Voice of America, Washington DC 20547, USA.
1×500kW MW-tr and 10×250kW SW-tr's.
STATIONS Mediumwave: Kavala A 791kHz 500kW: 0200-0700, 1700-2130. **Shortwaves:** Kavala 250kW (G.C: 24.50E/40.53N): 0200-0800, 1200-2230.

Nov-Feb		Mar-Apr	
kHz	Times	kHz	Times
791	0200-0700	791	0200-0700
	1700-2230		1700-2130
5955	0500-0700	5955	0500-0700
	1600-1800		1600-1800
5985	0200-0230	5985	0200-0230
6060	1830-2230	6060	1830-2230
6090	0300-0500	6090	0300-0500
6095	0530-0800	6095	1800-2200
6140	1530-1800	6140	1530-1800
6150	1500-2200	6150	1500-2200
6170	1430-1500	7160	0600-0800
	1530-1600	7170	0200-0230
6185	1600-1800		0300-0600
7120	1200-1500		1600-2200
7150	1500-1600	7200	1600-1800
7155	1830-1900	7230	1400-1430
7160	0600-0800	7270	0300-0600
	1900-2230		1600-2200
7170	0200-0230	7295	0500-0700
	0300-0500	9540	0300-0500
	0530-0600		1830-2230
	1600-2200	9565	1200-1400
7205	1800-2100	9660	1400-1800
7270	0300-0700	9680	1400-2100
	1500-2200	9700	1530-1800
7280	1530-1600	9740	0200-0230
7285	1630-1700		0300-0600
7295	1400-1500	9770	0300-0630
9510	1200-1400	11740	1530-1600
9565	1200-1400	11805	1200-1400
9660	1400-1800	11830	1200-1600
9680	1400-1600	11840	1200-1800
9700	1430-1500	11850	1430-1500
	1530-1800	11860	1400-1500
9740	0200-0230	11925	0600-0730
	0300-0730	15205	1200-1400
9770	0300-0630		
11805	1200-1400		
11830	1200-1500		
11850	1400-1500		
11925	0400-0730		
15205	1200-1400		

MEDIUMWAVE: 0200-0400 Ukranian, 0400-0700 **English,** 1700-1800 Romanian, 1800-1930 **English,** 1930-2000 Romanian, 2030-2100 Serbo-Croat, 2030-2130 **English. D.PRGR:** Shortwave: See USA.

ANN: "This is the Voice of America" is announced in the language of the programme in which it is given and in English. Station Identification: "You are listening to the Voice of America from Washington, DC". **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of tr's and within prgrs – **V.** by QSL-card. No. Rp.

VOICE OF AMERICA RADIO STATION AT RHODES

ADDR: Voice of America, Washington DC 20547, USA.
1×150kW MW-tr and 2×50kW SW-tr's.

STATIONS: Mediumwave: Rhodes A 1259kHz 150kW: 0300-0630, 1630-2200. 0300-0400 **English,** 0400-0600 Arabic, 0600-0630 **English,** 1630-1700 Turkish, 1700-2100 Arabic, 2100-2200 **English. Shortwave:** Rhodes (G.C: 28.10E/36.15N) 50kW: 0200-0600, 1630-2200.

Nov-Feb		Mar-Apr	
kHz	Times	kHz	Times
1259	0300-0630	1259	0300-0630
	1630-2200		1030-1300
5965	0400-0600		1630-2200
6015	1630-2200	5965	0400-0600
6070	0200-0400	6015	1630-2200
6160	1600-2200	6030	1600-2200
7110	0400-0600	6070	0200-0400
		7110	0400-0600

D.PRGR: See USA (shortwave).
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification (English): "You are listening to the Voice of America from Washington DC" – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programmes – **V.** by QSL-card. Reports required. No Rp.

HOLLAND

L.T: GMT+1h – **Pr.L:** Dutch – **EC:** a/c 50 (yes).

NEDERLANDSE OMROEP STICHTING (NOS)

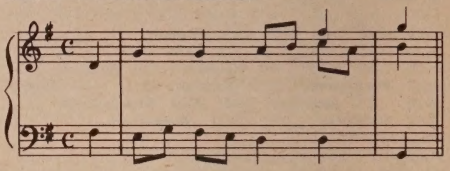
ADDR: P.O. Box 10, Hilversum. **Te:** 02150-81110 (TV/Radio). **Telex:** 43189 (TV/Radio).
The Dutch prgr's are provided by the NOS and seven broadcasting organisations:
1) Algemeene Vereeniging Radio Omroep (AVRO), s'Gravelandseweg 52, Hilversum (Independent); 2) Katholieke Radio Omroep (KRO), Emmastraat 52, Hilversum (Catholic); 3) Nederlandse Christelijke Radio Vereeniging (NCRV), Schuttersweg 8, Hilversum (Christian); 4) Omroepvereeniging VARA, Heuvellaan 33, Hilversum (Socialdemocratic); 5) Televisie Radio Omroep Stichting (TROS), Lage Naarderweg 45, Hilversum (Independent); 6) Omroepvereeniging VPRO, s'Gravelandseweg 63, Hilversum (Social criticism); 7) Evangelische Omroep (EO), Utrechtsestraatweg 8, Hilversum (Evangelical); 8) Veronica Omroep Organisatie (VOO), Groest 53b Hilversum (Independent).
The advertising on radio and television is provided by the Stichting Ether Reclame (STER), s'Gravelandseweg 89, Hilversum.
Board of the NOS: Chmn: E.C.M. Jurgens. Vice-Chmn. & Prgr. Affairs Radio: Dr. W.J.A. Wagenaar. Prgr. Affairs TV: J.L. de Troye. Techn. Affairs: Dr. A.W.W. van den Bos. Fin.Econ. Affairs: Drs. Ch. E. van der Ploeg, Personnel, Social Affairs and Training: K. de Wilde. Reg. Affairs: Dr. M. Dykstra.
STATIONS: The radio- and TV-studios are in Hilversum but the main tr's owned by the Nederlandse Omroep Zender Maatschappij (NOZEMA) are located in Lopik, near Uttrecht.

	kHz	kW		kHz	kW
Lopik I	1007	120	Hoogezand a)	1594	2.5
Lopik II	746	120	Hulsberg a)	1493	5
Lopik III	674	20	Amsterdam a)	1250	1
Hengelo a)	890	5	a) relay Lopik III.		

F.M: (I=relay Lopik I; II/IV=relay Lopik II 1600-2300; III=relay Lopik III). All stereo exc °)=mono.

FM	I	III	II/IV	kW
Goes	87.85	95.0	99.8	12
Hoogezand		97.5°		15
Hulsberg	92.1	95.8	98.7	4
Irnsum		88.6°		15
Ijsselstein	92.6	96.8	98.9	100
Markelo	91.4	96.2	98.4	100
Roermond	88.2	90.9	94.5	100
Smilde	88.0	91.8	94.8	100
Wieringermeer	87.7	89.8	92.2	10

D.PRGR: Hilversum I 0445-2300; Hilversum II 0600-2300 (on 746kHz only to 1600); Hilversum III 24h; Hilversum IV 0600-1600 only on FM II/IV.
N, Wrp: Hilversum I: 0600 (W), 0630 (W), 0700(Sun), 0730 (W), 0800(Sun), 0930 (W), 1000(Sun), 1130, 1430 (W), 1630 (W), 1730 (W), 1830(Sun), 2130 2255.
Hilversum II: 0600 (W), 0700, 1000 (W), 1200, 1500 (W), 1700, 1800(Sun), 1900 (W), 2255.
Hilversum III: On the h.
Hilversum IV: W 0700, 0900, 1400; Sun 0800, 1400.
Agricultural Inf: Hilversum I: 0445 (W), 0535.
Messages (police messages and urgent tourist messages): Hilversum I: 1655-1700. Hilversum III: 2155-2200.
ANN: "Hier is de AVRO". "Hier is de KRO", etc – **V.** by QSL folder. **INT-SIG:** Three first bars from the National Anthem "Wilhemus van Nassouwe".



REGIONALE OMROEP NOORD EN OOST (RONO)

Addr: Prinsenhof, Martinikerhof 23, Groningen. **Te:** (050) 13341.
Stations: Irnsum III 88.6MHz 15kW – Hoogezand III 97.5MHz 15kW – Markelo III 96.2MHz 50kW – **D.Prgr:** 1700-1900 in Dutch dialects.

REGIONAL OMROEP ZUID (ROZ)

Addr: Van Hasseltkade 20, Maastricht. **Te:** (034) 11451.
Stations: Hulsberg III 95.3MHz 4kW – Roermond 90.0MHz 100kW – **D.Prgr:** 1800(Sun 1600)-1900.

STICHTING AMSTERDAMSE DRAADLOZE OMROEP "STAD"

Addr: Johan Vermeerstraat 29, Amsterdam. **Te:** (020)-715069.
Station: Amsterdam 1250kHz 1kW – **D.Prgr:** 1700-1900.
ALF: Dfl. 33.00 (Dfl. 108, – radio+TV).

STICHTING REGIONALE OMROEP BRABANT (SROB)

Addr: Heggeranklaan 1, Eindhoven. **Te:** (040)-116262.
Station: Eindhoven 91.9MHz 1kW – **D.Prgr:** Mon-Fri 06.15-0700, 1130-1200, 1700-1745; Sat 1130-1200, 1700-1730*; Sun 1000-1200, 1700-1800* *)=sport.

RADIO NEDERLAND WERELDOMROEP (non-com.)

ADDR: P.O. Box 222, Hilversum. Office: Witte Kruislaan 5, Hilversum. **Te:** 16151. **Telex :** 43336. **Cable:** Mundivox.
L.P: Board of Management: J.W. Acda(Chairman), C.H. Verheugd, A. Dalhuisen; Dir. of Programmes and Transcription: B.H. Steinkamp; Dir. of Production: J. Zeegers; Dir. News: F. Dekker; Dir. Engineering: V.J. de Grijs; Dep.Dir. Engineering: J. Vastenhoud; Dir.Tec. Developments: Prof. J.J. Geluk; Dir. Secretariat: G.R. de Vries; Dir. Personnel: C. Kroon.

STATIONS: Lopik 4×100kW, 1×10kW(reserve) (G.C: 05.02E/52.01N). Bonaire Noord(Netherlands Antilles) 2×300kW (G.C: 68.19W/12.13N) – Relay facility via TWR Bonaire Zuid(Netherlands Antilles) MW 500kW. Talata/Volonondry(Madagascar) 2×300kW(G.C: 47.37E/18.45S).

kHz	kHz	kHz	kHz	kHz	kHz
B 800	L 7210	L 11730	L 15120	B 15320	B 17810
L 5955	L 7240	B 11730	M15165	L 15325	M17810
B 6020	M 7285	M11780	M15180	L 15370	B 17830
M 6020	B 9590	L 11740	L 15185	L 15375	M17855
L 6020	B 9630	M11740	B 15190	B 15425	M21480
L 6025	L 9660	L 11845	L 15195	L 17700	L 21570
L 6045	L 9715	L 11930	L 15220	L 17775	L 21640
L 6085	B 9715	L 11950	B 15220	M17780	B 21640
B 6165	B 9770	L 11960	M15220	L 17810	M21685

OPERATION SCHEDULE

I=So. Africa; II=Middle East; III=No. Africa; IV=Europe(We. part); V=Europe(Ea. part); VI=New Zealand/Australia; VII=We. Austalia; VIII=So. Ea. Asia; IX=Africa; X=So. Asia; XI=Ea. Africa; XII=So. America(So. part); XIII=No, Ce.&We. Africa; XIV=No.

Three centuries ago it took months, and sometimes even years to keep the world in touch with the Dutch.

Today, a split second is all it needs to pick us up in Arabic, English, Spanish, Portuguese, Afrikaans, Indonesian, French or Dutch.

Programme schedules for planned,split-second listening are available free on request.

RN

RADIO NEDERLAND
P.O. BOX 222 HILVERSUM HOLLAND

America(Ea. part); XV=So. America; XVI=So. America (No. part); XVII=Greater Caribbean Area; XVIII=No. America(We. part); XIX= So. Europe/NW Africa; XX= Ce. America/So. America(We. part); XXI=Mexico; XXII=No.&Ce. Africa; XXIII=No.&We. Africa; XXIV= Brazil; XXV=Indonesia; XXVI=Far East.

November 1976–May 1977 Schedule
Behind frequencies and between brackets: Antenna direction in degrees, clockwise from true North.

Afrikaans	Area	Station/Frequency/Beam
1530-1650(D)	I	L15370(162),L15220(150)
Arabic		
1530-1650(D)	II	M21685(350),M11730(350)
1700-1820(D)	II/XIX	B17810(80),L11740(163), L11730(123)
1830-1950(D)	I/II/III	B17830(65),M11740(350)
Dutch		
0630-0750(D)	VI	B9715(230)
0800-0920(D)	VI	B9770(230)
0800-0920(D)	VII/VIII	M17810(85)
0800-0920(D)	IV/XIX	L15180(205),L11930(195), L7210(162),L5955(30/210), L6045(nd)
0730-0750(W)	XIII	L15180(205),L11930(195), L7210(162),L5955(195)
1100-1220(D)	VIII	M15165(65)
1100-1220(D)	V	L15325(130),L7240(81), L5955(162)
1230-1350(D)	VIII	M17855(85)
1400-1520(D)	X	M17855(45)
1530-1650(S)	IX/XV/IV	L21640(235),L21570(162), L17810(250),L17775(205), L6020(nd)
1700-1820(D)	XIX/IV	B21640(80),L15220(130), L6025(195)
1700-1820(D)	I/II	M15180(350),M6020(255)
2000-2120(D)	XXIII	B17810(80)
2130-2250(S)	XIV	L11730(303),L9715(300)
0010-0030(D)	XVII	B800(nd)
0030-0150(D)	XIV	B6165(350)
0330-0450(D)	XVIII	B6165(320)
English		
0630-0750(W)	VI	B9630(230)
0800-0920(W)	VI	B9715(230)
0930-1050(W)	IV/V	L9660(163),L7240(81), L5955(30/210),L6045(272)
1400-1520(W)	VIII/X	L17810(105),L15185(83), L15120(85)
	XXVI	M11740(45)
1400-1520(W)	IV	L5955(30/210),L6045(nd)
1830-1950(W)	IX/X	L15375(205),L11730(195), M6020(255)
1830-1950(W)	IV	L6020(nd)
2000-2120(W)	IV/V	M11730(335)
2130-2250(W)	XIV	L11730(303),L9715(300)
0200-0320(W)	XIV	B6165(350)
0500-0620(W)	XVIII	B6165(320)
English/Spanish		
2300-0010(W)	XVII	B800(nd)
English/Dutch		
1640-1650(+)	XIV/ XVIII	B17775(350),B15190(320)
Spanish		
1230-1350(W)	XIX	L15325(205),L11960(195), L5955(195),L6045(nd)
1530-1620(+)	XV	L21640(261),L21570(235), L17810(235),L17775(230)
1630-1650(+)	XV	L21570(235),L17810(265)
2000-2120(W)	XIX	L9715(195),L6085(30/210), L6020(195)
2300-0020(W)	XII/XVI	B15320(170),L11845(230), L11730(235),L6020(260)
0030-0120(W)	XVII	B6020(nd)
0200-0320(W)	XX	B9590(250)
0330-0450(W)	XXI	B9590(290)
Portuguese		
2300-0035(W)	XXIV	B15425(133)
2345-0020(W)	XXIV	B9715(170)

Indonesian	Area	Station/Frequency/Beam
0800-0920(D)	XXV	M21480(85)
0930-1050(D)	XXV	M21480(85),M17810(85)
1100-1220(D)	XXV/IV	M21480(85),L17810(70), L6020(nd)
1230-1350(D)	XXV	L17810(85),M11740(85)
2130-2250(D)	XXV	M7285(85)
2300-0020(D)	XXV	M7285(85)
French		
1830-1950(D)	XXII	B17810(80),L15220(150), L15195(205)
2000-2120(D)	XXIII	B17830(65),M15220(320), L11740(205)
Happy Station (English Version B/M-show)		
0630-0750(S)	VI	B9630(230)
0800-0920(S)	VI	B9715(230)
1400-1520(S)	VIII/X	M11740(45)
1830-1950(S)	IX	M6020(255)
2000-2120(S)	IV	M11730(335)
0200-0320(S)	XIV	B6165(350)
0500-0620(S)	XVIII	B9715(320),B6165(320)
Happy Station (English Version H-show)		
0930-1050(S)	IV/V	L9660(163),L7240(81), L6045(272),L5955(30/210)
1400-1520(S)	VIII/X	L17810(105),L15185(83), L15120(85)
1400-1520(S)	IV	L5955(30/210),L6045(nd)
1830-1950(S)	IX	L15375(205),L11730(195)
1830-1950(S)	IV	L6020(nd)
Happy Station (Spanish Version – Estación de la Alegría)		
1230-1350(S)	XIX	L15325(205),L11960(195), L5955(30/210),L6045(nd)
2000-2120(S)	XIX	L9715(195),L6085(30/210), L6020(195)
2130-2250(S)	XIV	L11950(272),L6085(303)
2300-0020(S)	XV	B15320(170),L11845(230), L11730(235),B9715(170), L6020(260)
0030-0120(S)	XVII	B6020(nd)
0200-0320(S)	XX	B9590(250)
0330-0450(S)	XXI	B9590(290)
"Happy Station-70" (English/Spanish)		
2300-0010(S)	XVII	B800(nd)

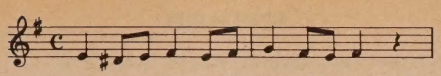
S=Sundays; D=Daily; W=Weekdays; (+)=Monday through Friday.

LOCAL DATE in the receiving areas.

PROGRAMME SCHEDULE (local day in the receiving area).
N. Comm: In Arabic: 60 mins after beginning of tr; in all other prgr. languages at the start of the prgr. and at the end of the prgr. **DX-programmes:** In English: Thurs; in French: Tues; in Spanish: Fri. **Mailbag:** In Arabic: Fri and Tues; in Dutch: Thurs; in English weekly on Fri; in Indonesian: Sun; in French: Sat; in Portuguese: Sat. **Philately:** In Arabic: Wed(fortnightly); in French: Mon; in English: Fri; in Indonesian: Fri(fortnightly); in Dutch for Caribbean: Mon(fortnightly). **Technical Course:** In French: Sun.

The Happy Station
Tom Meyer's "Sunday family show of smiles across the miles", something of everything for everyone everywhere in English or in Spanish on SW and in English and Spanish on MW. For freqs see operation schedule.

ANN: Dutch: "Hier is R. Nederland Wereldomroep in Hilversum". English: "This is R. Nederland, the Dutch World Broadcasting System". French: "Ici Radio Nederland, Hilversum, Hollande". Indonesian: "Disini Hilversum Siaran Indonesia R. Nederland". Spanish: "Aqui R. Nederland, Hilversum, Holanda". Portuguese: "Aqui é Radio Nederland, Emissora Internacional Holandesa, em Hilversum, Holanda". Arabic: "Idha'atu'l Holanda 'l Arabiya fi Hilversum". Afrikaans: "Dit is R. Nederland in Hilversum, Holland".
GENERAL INT-SIG:
Old Dutch folk-song: "Merck toch hoe sterck" played on carillon or celeste.



V. by QSL-card – **PUB:** Prgr. sched: in Dutch, English, French, Spanish, Arabic, Afrikaans, Indonesian and Portuguese. A booklet on SW aerial construction and antenna tuner construction in Dutch, English, Spanish, Indonesian and Arabic. Various datasheets in English and Spanish to help the DXer and shortwave listener to improve reception or to extend the scope of the receiver. All pub. free of charge on application. Ask for the DX Information Service catalogue.

TRANSCRIPTION SERVICE
A free sce to foreign sts issues complete prgrs about the Netherlands, international cooperation, specific information, culture and tailored to the requirements of the areas served. (Also for television stations.)

RADIO BLOEMENDAAL (Rlg.)

(Operated by Geref. Kerk van Bloemendaal).
ADDR: Vijverweg 14, Postbus 26, Bloemendal. **Te:** (023) 250471.
STATION: 1223kHz 0.05kW.
D.PRGR: Sun and Christian Holidays 0800-1300, 1500-1600 (Religious service and religious music only) – **V.** by QSL-card.

AFN BENELUX TRANSMITTER OPERATION

(relay of AFN, Germany).
STATIONS: 24h.

Holland	MHz	kW	Belgium	MHz	kW
Brunssum	89.15	0.075	Brussels	100.8	0.9
Soesterberg	93.1	0.02	SHAPE	101.5	4
Maastricht	93.4	0.075	Klein Brogel	100.7	0.05

Programme source is AFN Frankfurt studios.

D.PRGR: Relay of AFN, Germany, for NATO forces in Mons and Heerlen (Limburg) and for American Air Force in Camp New Amsterdam – **V.** by QSL-card.

HUNGARY

L.T: GMT+1h – **Pr.L:** Hungarian – **E.C:** a/c 50 (yes).

ÁLLAMI RÁDIÓ ÉS TELEVIZIÓ BIZOTTSÁG (Gov.)

ADDR: Bródy Sándor 5-7, H-1800 Budapest. **Cable:** Magyar-radio. **Te:** 338-330. **Telex:** 22.5188 – **L.P:** Pres: István Tömpe. Secr: Ferenc Vészits.

MAGYAR RADIO

L.P: Pres: Dr. István Hárs. Vice-Pres: Dr. Kálmán Kiss. Dir.Tec: Gábor Heckenast. Dir.Adm: László Sárffy. Head, For. Rel: V. Szarka.
STATIONS

Location	kHz	kW	Prgr.
Solt	539	2000	1
Lakihegy	872	20	2
Pécs	872	15	2/4
Szolnok	1187	135	2
Szombathely	1187	25	2/4
Siófok	1250	135	2
Nyíregyháza	1250	25	2/4
Györ	1349	0.4	2/4
Szolnok	1349	5	4
Mosonmagyaróvár	1594	5	2/4
Miskolc	1594	15	1/4

Prgr: 1=Kossuth; 2=Petöfi; 3=Partly stereo; 4=Regional; 5=Foreign Sce.

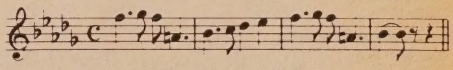
FM	I	II	III	kW
Budapest	66.62	67.40	69.38	3/10/3
Györ			67.04	1
Kabhegy		72.20	70.64	10
Miskolc	66.84	66.02	68.48	3
Nagykaniza	71.03	69.98	68.36	10
Pecs	67.19	71.81	67.97	50/15/50
Szentes			68.72	3
Sopron	70.43	72.86		30
Tokaj	72.11	71.33	70.43	50

HOME SERVICE
Prgr. I (Kossuth Radio): 0325(Sun 0500)-2325(Sat 0058).
N.Wrp: 0330(W), 0400(W), 0430(W), 0500, 0530(W), 0600(W), 0700, 0900, 1100, 1300(Sat), 1400(not Sat), 1500(Mon-Fri), 1600, 1730, 2000(W), 2100, 2300, 2400(Sat).

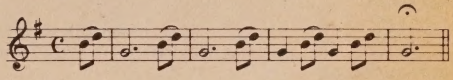
Prgr. II (Petöfi Radio): 0325(Sun 0600)-2310.
W: 0330 and half hourly to 0730, 0830, 0930(not Sat), 1030, 1130, 1230, 1330(not Sat), 1430, 1530, 1730, 1930, 2130, 2300. Sun: 0700, 0730, 0930, 1130, 1430, 1630, 1830, 2130, 2300.

FM-Prgr (3rd Prgr): 1300(Sat/Sun 0700)-2210.

Reg. Prgrs: *Pecs:* 1600-1830(Sat/Sun 1900) – *Szolnok:* 1600-1730(Sat 1630-1730), Sun 0800-0930, 1700-1730 – *Nyiregyháza:* 1600-1730(Sat 1630-1730), Sun 1700-1800 – *Györ:* 1600-1730(Sat 1630-1800), Sun 0830-1000 – *Miskolc:* 1600-1730(Sat 1630-1800), Sun 1700-1800.
INT-SIG: R. Kossuth: Played on 3 clarinets and 1 bass clarinet.



R. Petöfi: 3 flutes, 2 violins, 1 cello, 1 double bass.



ANN: "Kossuth Radio, Budapest – Petöfi Radio, Budapest".

FOREIGN SERVICE
STATIONS: Jaszbereny (G.C: 19.52E/47.35N), Diosd (G.C: 18.57E/47.25N), Szekesfehervar (G.C: 18.24E/47.10N). 3/15/100/250kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
5965	6150	7200	9655	15160	15415	17785
6000	7150	7215	9883	15220	17710	21525
6110	7155	9585	11910	15285	17715	

TO EUROPE

English	kHz
1200-1240	6150,7155,9585,11910
(Mon-Fri)	15160,17785
2130-2200	5965,7150,7200,9655,11910,15415
German *) to Austria	
*0900-1000(Sun)	6150,7155,7200,9585,11910,15285
1300-1400(Sat)	6150,7155,9585,11910
1330-1400(Sun)	15160,17785
*1530-1600(W)	6110,7200,7215,9585,11910,15160
1730-1800	6110,7150,7200,9585,11910,15415
*1930-2000	6110,7150,7200,9655,
2030-2100	11910,15415
Greek	
0700-0830(Sat)	6150,7215,9585,11910,15285,17715
1120-1300(Sat)	6150,7155,9585,11910
1140-1200 Mon-Fri)	15160,17715
1400-1500(Sun)	6110,7200,9585,11910,15160,17785
1700-1730	6110,7150,7200,9585,11910,15415
2000-2015	6110,7150,7200,9655,11910,15415
Hungarian	
1100-1120	6150,7155,9585,11910,15160,17715
1500-1630(Sun)	6110,7200,9585,11910
1500-1530(Sat)	15160,17795(Sat also 7155)
1600-1630(W)	6110,7150,7200,9585,11910,15415
1900-1930	6110,7150,7200,9655
2100-2130	11910,15415
Italian	
1240-1300 (Mon-Fri)	6150,7155,9585,11910,15160,17785

Italian	kHz
1300-1330(Sun)	6150,7155,9585,11910,15160
1430-1500(Sat)	6110,7200,9585,11910,15160,17785
1800-1830	6110,7150,7200,9655,11910,15415
2015-2030	6110,7150,7200,9655,11910,15415
Spanish	
1300-1320 (Mon-Fri)	9585,11910,15160,17785,21525
2200-2230	5965,7200,9655,11910,15415

TO NEAR EAST

Turkish	
0700-0900(Sun) / 0830-1000(Sat)	6150,7215,9585,11910,15285 / 17715 (Sat also 7155)
1120-1140 (Mon-Fri) / 1120-1300(Sun)	6150,7155,9585,11910,15160,17715
1630-1700	6110,7150,7200,9585,11910,15415
1830-1900	6110,7150,7200,9655,15415

TO ASIA

English	
1430-1500 (Mon-Fri)	7200,9585,11910,15160,17785,21525

TO PACIFIC/FAR EAST

English	
1030-1100	7155,9585,11910,15160,17715
Hungarian	
1000-1030	21525

TO NORTH AMERICA

English	
0200-0230 / 0300-0330	6000,7215,9585,9833 / 11910,15220,17710
Hungarian	
0130-0200 / 0230-0300 / 0330-0400 / 0130-0300(Mon) / 0330-0500(Mon)	6000,7215,9585,9833,11910,15220,17710

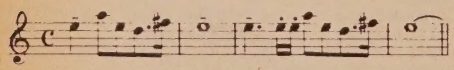
TO SOUTH AMERICA

Hungarian	
2230-2300 / 2330-2400	7215,9585,9833,11910,15415,17715
2300-0100(Mon) / 0030-0100 (not Mon)	7215,9585,9833,11910,15415,17715
Spanish	
2300-2330 / 0000-0030 (not Mon) / 0100-0130	7215,9585,9833,11910,15220,17710

DX PROGRAMMES

To Europe	
1400-1415a	7155,7215,9585,11910,15160,17785
1515-1530b	6110,7200,7215,9585,11910,15160
To No. America & Mexico	
0400-0415c	6000,7215,9585,9833,11910,15220

a) in English; Sat in German. – b) in English Tues & Fri; German Wed; Italian Mon & Thurs – c) in English Wed & Sat; Spanish Tues & Fri.
ANN: E: "This is Radio Budapest, Hungary".
INT-SIG: Excerpts from the suite "1848" by T.K. Polgar (played on three trumpets, 2 cornets).



V. by QSL-card. Rec. acc. – **ALF:** Forints 120.

ICELAND

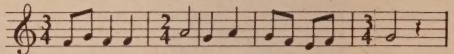
L.T: GMT – **Pr.L:** Icelandic – **E.C:** a/c 50, 220V (yes).

ICELAND STATE BROADCAST SERVICE
RIKISUTVARPID (Gov.)
ADDR: P.O. Box 120, Reykjavik. **Cable:** Utvarp. **Telex:** 2066.
L.P: Dir.Gen: A. Björnsson. Dir.Prgr. Council: Th. Thorarinsson. Dir.Adm: G. Vagnsson. Dir. Sound Radio: G. Jonsson. Dir.N: M. Indridadottir.

STATIONS	kHz	kW		kHz	kW
Reykjavik	209	100	Alftafjördur	1133	20W
Eidar	209	20	Lón	1412	20W
Höfn	665	5	Húsavik	1412	20W
Akureyri	737	5	Siglufjördur	1412	20W
Olafsfjördur	1484	20W	Dalvik	1510	20W
Raufarhöfn	1484	20W	Tórshhöfn	1510	20W
Skülagardur	1484	20W	Kópasker	1510	20W
Hellissandur	1489	20W			

FM	MHz	kW		MHz	kW
Stykkisholmur	88.0	0.2	Reykjavik	94.0	0.9
Arnarnes	89.0	10W	Hófell	93.8	0.2
Olafsvik	90.3	0.02	Laugamyri	96.5	10W
Hegranes	90.6	0.2	Vestmannaeyjar	97.1	0.2
Neskaupstadur	91.0	0.03	Reykjavik	98.0	0.03
Raufarhöfn	91.0	0.03	Hellissandur	98.4	0.02
Reynisfjall	91.2	10W	Baeir	99.0	10W

HOME SCE: Mon-Fri 0700-2330; Sat 0700-2400; Sun 0800-2330.
N: 0730, 0815, 0900, 1000, 1225, 1600, 1900, 2200.
INT-SIG: Home Service.



V. by QSL-card. Rp. – **ALF:** Kr. 5.500 – (7 studios).

IRELAND

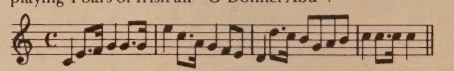
L.T: GMT (Su: GMT+1h) – **Pr.L:** Irish, English – **EC:** a/c 50, 220/380V (yes).

RADIO TELEFIS EIREANN
(Statutory Corporation)
ADDR: Donnybrook, Dublin 4. **Te:** (01)693111. **Telex:** 5268. **Cable:** Broadcasting.
L.P: Chmn: D.O. Morain. Dir.Gen: O. Maloney. Contr. of Prgr's (radio): S. MacRéamoinn. Dir. of Eng: G.T. Waters.

STATIONS	kHz	kW		kHz	kW
Tullamore	566	500/150	Cork	1250	10
Dublin	1250	5			

FM	MHz	kW		MHz	kW
Truskmore	89.7	120	Moville*	94.0	2
Mullaghanish	93.5	120	Castletownbere*	94.9	2
Maghera	94.1	120	Fanad*	95.0	2
Mt. Leinster	94.9	120	Cahirciveen*	95.3	5
Kippure	95.3	60	*) scheduled (13 studios in 5 different cities)		

HOME SCE: W 0730-2350; Sun 0800-2350 – **N: English:** 0730(W), 0800, 0900, 1000, 1300(Sun), 1330(W), 1830, 2100, 2345. **Irish:** 1801, 2145(W), 2155(Sun) – **Wrp:** 0755(W), 1755 and at end of N.
ANN: "R. Telefis Eireann" – **INT-SIG:** Celeste and Harp playing 4 bars of Irish air "O'Donnel Abu".



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RADIO BUDAPEST H-1800, BUDAPEST, HUNGARY

V. by letter – **PUB:** RTE Guide – **FI:** By television licence payments and adv – **AD:** 75h per week.

RADIO NA GAELTACHTA

(Nat. Sce. for Irish speaking communities).
ADDR: see R. Telefis Eireann.
L.P: Head and Contr. of Prgrs: M. MacConghail.

STATIONS			FM	MHz	kW
Mediumwaves	**kHz**	**kW**	Kippure†	89.1	60
Carraroe	539	2	Mt. Leinster†	90.4	120
Cahirciveen	962	1	Mullaghanish	91.3	60
Annagary	1250	10	Truskmore	91.9	60
			Maghera	97.0	60

HOME SCE. in Irish: 1800-2130 – **N:** 1800, 2100 – **Wrp:** after 1800 N.

ITALY

L.T: GMT+1h(Su. GMT+2h) – **Pr.L:** Italian – **E.C:** a/c 50. Voltages variable (yes).

RAI-RADIOTELEVISIONE ITALIANA

(State Service by public act to RAI).
ADDR: Viale Mazzini 14, 00915 Roma. **Te:** 38781. **Cable:** Raidirro. **Telex:** 61142.
L.P: Pres: Beniamino Finocchiaro. Vice-Pres: Giampiero Orsello.

HOME SERVICE

NATIONAL PROGRAMME: 0505-2300.

191kHz: Caltanisetta(10)
566kHz: Bologna I(25kW), Caltanisetta I(25), Salento I (5), Aosta I(2)
656kHz: Bolzano I(25kW), Firenze I(100), Napoli I (120), Torino I(50), Venezia I(25)
818kHz: Trieste I(25kW)
899kHz: Milano I(600kW)
1061kHz: Cagliari I(25kW), Catania I(2), Livorno I(1), Trento I(1), Udine I(2), Verona I(2), Squinzano(25)
1331kHz: Bari I(50kW), Palermo I(12.5), Pescara I(25), Roma I(300)
1578kHz: Ancona I(2kW), Campobasso I(1), Aquila(1), Carrara I(0.1), Catanzaro I(1), Cosenza(1), Foggia I(1), Genova I(50), Gorizia I(0.1), La Spezia I(1), Matera I(1), Nuoro I(1), Perugia I(1kW), Potenza I(1), Reggio I(2kW), Sassari I(2), Taranto I(1), Terni I(0.1)
N: 0600(W), 0700, 0900(W), 1200, 1400(W), 1600(W), 1900, 2200 – **Reg. Sces:** W 1300-1337.

SECOND PROGRAMME: 0500-2305.

845kHz: Roma II(540kW)
1034kHz: Caltanisetta II(2kW), Genova II(10), Milano II(50), Napoli II(25), Pescara II(6), Venezia (25)
1115kHz: Aosta II(2kW), Bologna II(60), Pisa II(25), Trieste II(6), Palermo II(12.5kW), Bari.(150)
1223kHz: Rimini II(6kW), San Remo II(6), Messina II (6)
1313kHz: Ancona II(6kW)+3 sts
1430kHz: Foggia II(2kW), Pesaro II(2), Taranto II(1)
1448kHz: Agrigento II(2kW), Allessandria II(0.1), Ascoli Piceno II(0.1), Blluno II(0.1), Benevento II (0.1), Biella II(0.1), Bressanone II(0.1), Brunico II(1), Cagliari II(1), Catania II(6), Como II(1), Cortina II(1), Cuneo II(0.1), La Spezia II(1), Merano II(1), Oristano II(2), Perugia II(1), Potenza II(1), Salento II(9), Salerno II(0.1), Sassari II(5), Siena II(0.1), Sondrio II(2), Squinzano II(50), Torino II(25), Trento II(1), Udine II(2), Verona II(2), Firenze II(6), Campobasso II(1), Catanzaro II (1), Matera II(1).
1484kHz: Arezzo II(01kW), Avellino II(1), Bolzano II (2), Cosenza II(1), Gorizia II(0.1), L'Aquila II (1), Lecce II(1), Nuoro II(1), Savona II(0.1), Teramo II(0.1), Terni II(0.1), Vicenza II(0.1)
N: 0530(W), 0630, 0730, 0830, 0930, 1030, 1115(W), 1230, 1330(W), 1530(W), 1600(Sun), 1630(W), 1730(W), 1830, 2100, 2300 – **Maritime Wrp:** 0525, 1555(W), 1740(Sun), 1055 – **Reg. Sces:** 1120-1200(W), 1130-1200(Sun), 1300-1330(Sun).

THIRD PRGR: 0825-0900(D): Special cultural prgrs: D 0900-2230(approx.)
1367kHz: Bari III(1kW), Catania III(2), Firenze III(2), Genova III(10), Messina III(2), Milano III(12), Napoli III(12.5), Palermo III(2), Pisa III(2), Roma III(6), Sassari III(2), Torino III(6), Trento III(0.1), Venezia III(25)
1594kHz: Bologna III(1kW), Bolzano III(2), Bressanone III(0.1), Brunico III(1), Cagliari III(1), Livorno III(1), Merana Trieste III(2), Verona III(2).
N: 1700(W), 2100.

Special reg. sces during daytime: 539(Cagliari 17kW/Palermo 8kW/Catania 4kW), 593(Torino/San Remo 1kW), 692(Pisa 20kW), Bari 30kW, Ancona/Aosta/Bolzano 4kW), 710(Rome 20kW), 773(Napoli 20kW, Genova 6kW), 800(Rome 8kW, Reg. Calabria 4kW), 1016(Venezia 25kW, Genova 10kW), 1097(Bologna 60kW).

FM	I	II	III	kW
Cal del Vento	92.1	96.5	98.5	8.5
Colle Barbiano	89.5	91.7	93.9	12
Genova-Portofino	89.5	91.9	95.1	24
Martina Franca	89.1	91.1	93.1	18
M. Argentario	90.1	92.1	94.3	22
M. Beigua	91.5	94.6	98.9	6
M. Caccia	94.7	96.7	98.7	6
M. Cammarata	91.1	95.9	99.9	18
M. Cavo	87.6	91.2	98.4	13
M. Conero	88.3	90.3	92.3	7
M. Faito	94.1	96.1	98.1	18
M. Lauro	94.7	96.7	98.7	6
M. Limbara	88.9	95.3	99.3	6
M. Nerone	94.7	96.7	98.7	18
M. Peglia	95.7	97.7	99.7	6
M. Pellegrino	94.9	96.9	98.9	6
M. Penice	94.2	97.4	99.9	60
M. Sambuco	89.5	91.5	93.5	18
M. Scuro	88.5	90.5	92.5	6
M. Serpeddi	90.7	92.7	96.3	6
M. Serra	88.5	90.5	92.9	6
M. Venda	88.1	89.0	89.9	24/17/24
Pescara	94.3	96.3	98.3	6
Punta Badde Urbara	91.3	93.3	97.3	6
Roma	89.7	91.7	93.7	21
Salento	95.5	97.5	99.5	6
Torino	92.1	95.6	98.2	24
Udine	95.1	97.1	99.7	8

+1829 smaller sts not mentioned – M=Monte.

Experimental stereo trs: Roma 100.3MHz 18kW, Torino 101.8MHz 18kW.

SHORTWAVES (relay of Home Prgrs for the Mediterranean area): **Nat. Prgr:** 0500-2230 on 6060/9515kHz. **2nd Prgr:** W 0500-1110, 1130-1330, 1400-2230; Sun 0500-1300, 1330-2230 on 7175kHz. **3rd Prgr:** 1600-2200 on 3995kHz. **Night Prgr (Notturno dall'Italia):** 2230-0500 on 6060kHz (and on 854/899kHz); Music and short news bulletins in Italian and English each full h, in French and German each half h.

FOREIGN SERVICE

ADDR: Viale Mazzini 14, 00195 Roma. **Te:** 38781.
STATIONS: Rome: 50/60/100kW (G.C: 12.31E/41.48N); *) Caltanisetta: 5/25kW (G.C: 14.04E/37.30N).

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3995	*6060	7235	9575	11905	15400	21510
5990	6060	7275	9630	15230	17755	21560
6010	6075	7290	9710	15330	17795	21690
6025	*7175	*9515	11810	15385	17815	21695
6050						

EUROPEAN SERVICE

Albanian	kHz	Bulgarian	kHz
2000-2020	5990/6050	1540-1600	7235/9710

Czech	kHz
1815-1830	6050/7290
2135-2155	6050/7275
Danish/Swedish	
2000-2020	6010/7275/7290
English	
1935-1955	6010/7275/7290
Esperanto	
2000-2020	6010/7275/7290
French	
1430-1455	7275/7290/9575
German	
1750-1810[1]	5990/6025/7235
1810-1825[2]	
1540-1550[3]	5990/7275/7290

[1]) to W. Germany
[2]) to Ea. Germany
[3]) to Austria

Greek	kHz
1520-1540	7235/9710
Hungarian	
1935-1955	5990/6050
Italian	
1555-1635	5990/7290/9575
Maltese	
1430-1455	5990/7235
Lithuanian	
0445-0505	6075/7275
Polish	
1845-1905	6050/7290
2210-2225	6050/7275
Portuguese	
2110-2130	5990/7275
Romanian	
0510-0530	6075/7275
2135-2155	5990/6075/7290
Russian	
0330-0345	6010/6075/7275/9710/11905
0535-0555	6075/7275
1605-1625	7235/9710
Serbo-Croat	
1500-1520	5990/7275/7290
1910-1930	5990/6050
Slovak	**kHz**
1830-1845	6050/7290
2155-2210	6050/7275
Slovene	
1520-1540	5990/7275/7290
Spanish	
2050-2110	5990/7275
Turkish	
1500-1520	7235/9710
Ukrainian	
0350-0410	6075/7275

OVERSEAS SERVICE AUSTRALIA/NZ/FAR EAST

English	kHz
2200-2225	5990/9710/11905
0350-0410	9630/9710/11905
Italian	
2050-2130	7290/9575/11905
0830-0930	9575/11810/15230/17795/21690

TO AFRICA

Amharic	kHz
0415-0435	9710/11905/15330
Arabic	
1750-1810	6050/7290
2025-2045	5990/7275
French	
1630-1655	7235/9710
Italian	
0435-0510	9710/11905/15330
1700-1745	6050/7290/15385/17815/21560
Somali	
0510-0530	9710/11905/15330
1640-1655	15385/17815/21560

TO NEAR EAST

Arabic	kHz
0535-0555	9710/11905/15330
1910-1930	6010/7275/9575
English	
2025-2045	6010/6050/7290

TO MEDITERRANEAN

Italian/English	
0415-0440	6075/7275

TO LATIN AMERICA

Italian	
1830-1905	9575/11905/15400
0140-0305	6010/9575/9630/9710/11905
Portuguese	
0120-0135	9630/9710/11905
Spanish	
0100-0120	9630/9710/11905
0305-0325	6010/9575/9630/9710/11905

TO NO. AMERICA

English	
0100-0120	6010/9575
French	
0120-0135	6010/9575
Italian	
1400-1425	15385/17755
2230-0100	6010/9575/9630/9710/11905

Additional: Italian: Sun 1410-1730 on 11905 (90°)/15385 (310°)/17795 (270°)/21510 (135°)/21695 (170°)/21695 (240°).
NEWS in English: 0100, 0350, 0425, 1935, 2025, 2200.
ANN: "RAI – Radiotelevisione Italiana, stazioni del Programma Nazionale". 2nd Prgr: "Secondo Programma. 3rd Prgr: "Terzo Programma". Night Prgr: "RAI – Radiotelevisione Italiana stazioni a onda media di Roma 2kHz 845 pari a m.355 e di Milano 1kHz 899 pari a m.333.7 e stazioni ad onda corta di Caltanisetta kHz 6060 e 9515 pari a m. 49.50 e 31.53 "Notturno dall'Italia" – Foreign Sce: I. "RAI – diotelevisione Italiana – stazioni ad'onda corta di m... pari rispettivamente a ... kHz – transmissioni lingua Italiana per . . .". E: "This is the Italian R. and Television Sce. Broadc. from Rome . . .". F: "Ici la R. Italienne". G: "Hier ist der Italienische Auslandssendedienst in Rom". – **INT-SIG:** Bird chirping, opening signal: Bells (composition by A. Parelli) – **V.** by QSL-card – **PUB:** "Radiocorriere" (weekly for Home Sce. Prgr. schedule 3 times a year in E, F, G, I. (Foreign Service) – **ALF:** Lire 3850,-

AFN (US Military)
STATIONS: Aviano, Gaeta, Livorno, M . Virgine, Naples, Rimini, Sigonella, Verona (all using 106.0MHz), San Vito 107.0MHz, Vicenza 108.0MHz. **Power:** all sts 0.05kW exc. Naples 0.25kW. **D.Prgr:** 0500-2300.

PRIVATE STATIONS
The Italian constitutional court has ruled that the existing laws do not prevent operation of broadcasting stations by other parties than the official broadcasting company RAI. Any person or organization may therefore start and operate a radio or TV service, provided that the following conditions are fulfilled:
1) Transmitters should have a local target area only, like a city or a province.
2) They must not interfere with the official broadcasting company RAI, or with other services.
3) A law will have to rule how the authorization shall work in practise. The Italian Government is expected to prepare a bill in the near future.
There are between 500-1000 private radio stations operating in every part of Italy. In the Rome area alone there are more than 30 stations audible. With very few exceptions they operate in the FM band, usually, but not always, in the 100-108 MHz range. There are also some 50 TV stations, operating in the UHF band.
Due to the local nature of these broadcasts, the private stations are not listed here.

LUXEMBOURG

L.T: GMT+1h – **Pr.L:** Luxembourgian, French.

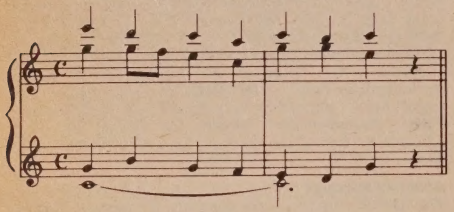
RADIO LUXEMBOURG (Comm.)
ADDR: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg. **Te:** 47661.
L.P: Dir.Gen: G. Graas. Secr.Gen: J. Felten. Dir.Tec: L. Maack. Internat.Dir: Claude Fischer. Dir. French Prgrs: J. Farran. Dir. German Prgrs: F. Elstner. Dir. English Prgrs: A. Keen.
STATIONS

236kHz	2000kW	–	1439kHz	1200kW
6090kHz	250/500kW	–	15350kHz	50kW

FM: 92.5MHz 50kW. 97MHz 100kW, 88.9MHz 100kW.

HOME SCE: in Luxembourgian on 92.5MHz: Mon-Fri 0530-0800, 1030-1300, 1700-2000, Sat 0530-0800, 1030-1300, 1600-2000, Sun 0700-2000 – **N:** 0533, 0555, 0625, 0655, 0725, 0755, 1130, 1200, 1730, 1855.
FOREIGN SCE
On 233/15350kHz in French: W 0430-0200(Wed/Sat 0400), Sun 0500-0200. **N:** On the h.
On 1439kHz in German, Dutch, Italian, English:
Dutch: W 1800-1830, Sun 1700-1800 – **German:** 0515-1800(Sun 0745-1700). **N:** On the h – **English:** 1845(Sun 1815)-0245 – **Italian:** 1830-1845(Sun 1800-1815).
On 6090kHz: 0500(Sun 0600)-0245 – **English:** 0000-0246 – **German:** 0500(Sun 0600)-2130, 2315(Sun 2250)-2400.

Religious Prgrs
236kHz: W 0400-0430, Sat 0410-0430, Sun 0400-0500. 1439kHz: W 0345-0515; Sun 0415-0745. 6090kHz: 2130-2315(Sun 2250).
On 97MHz in German and English
German: 0500(Sun 0600)-2400. **English:** 0000-0200.
ANN: Fr: "Ici R. Luxembourg"; E: "This is R. Luxembourg" or "This is 208"; Dutch: "Hier is R. Luxembourg"; G: "Hier ist R. Luxembourg"; Luxembourgian: "Hei ass R. Letzeburg" – **INT-SIG:** Melody played on Piano: A Luxembourgian popular song.



MALTA (State of)

L.T: GMT+1h – **Pr.L:** English, Maltese – **EC:** a/c 50, 240V (yes).

BROADCASTING AUTHORITY MALTA

An independent Authority to regulate and supervise sound and television broadc. in Malta with power to prescribe and produce prgr's.
ADDR: National Road, Blata-l-Bajda. **Cable:** Broadcasts. **Te:** 21281.
L.P: Chmn: Brig. G. Micallef(Ret). Chief Exec: Vacant. Secr: A.J. Ellul.

XANDIR MALTA (Broadcasting Division of Telemalta Corporation Parastatal).

ADDR: P.O. Box 82, Gwardamangia. **Te:** 25151. **Telex:** MW443. **Cable:** Xandir.
L.P: Gen.Mgr: J. Avellino. Head of Prgrs(radio): V. Aquilina. Head of Techn. Sce's: J. Guiliano. Head of News: C. Abela Mizzi.
STATIONS (Radio Malta):

998kHz	20kW:	Nat. Prgr(Maltese):	0500-2300
755kHz	20kW:	International Prgr:	see below
89.7MHz	1kW:	All Music Sce:	0500-2300

International Prgr: Maltese: 0700-0800, 1310-1700. **Italian:** 0800-1310.
External Service (Radio Mediterran):
On 6170kHz(250kW): "Malta Calling" in English Sat. 2045-2115. German Tues. 2045-2115.
On 1570kHz(600kW): "Lehen Malta" (in Arabic): 2230-2345.
Cable Networks (formerly Rediffusion Malta – Now part of Xandir Malta).
National (Maltese): 0500-2200. International(English): 0556-2310.

DEUTSCHE WELLE RELAY MALTA

3×250kW SW-tr's at Cyclops (G.C: 14.34E/35.50N) and 1×600kW MW-tr using 1570kHz.

kHz	**kHz**	**kHz**	**kHz**	**kHz**	**kHz**	**kHz**
6025	7160	9565	9650	11765	11865	15135
6100	7265	9590	9735	11785	11920	17825
6145	7275	9610	9765	11795	11925	21650

For prgr. details see D. Welle, Germany.

BRITISH FORCES BROADCASTING SERVICE MALTA

Operated by the British Ministry of Defence to provide a sce. of entertainm. and inf. and a link with home for British Forces in Malta. Non-commercial, does not accept adv.
ADDR: BFBS, Malta BFPO 51. **Te:** Naval 9845-51.
L.P: St.Contr: R. Norton. Prgr. Producer: Miss K. Donelly. Sen.Eng: G.E. Mills
STATIONS: 88.3MHz 0.75kW, 90.7/93.7MHz 4kW, 97.8MHz 0.75kW.
D.PRGR (English): W 0630-1430, 1730-2315: Sat 0700-2359: Sun 0800-2315 – **N:** 0700, 0800, 1300, 1400, 1800, 2100, 2300.
ANN: "This is the British Forces Broadc. Sce. Malta" – **INT-SIG:** "Strings on Parade (Martin), vibraphone or light orchestra – **V.** by QSL-card. Rp – **PUB:** "Listen in" weekly, free.

MONACO

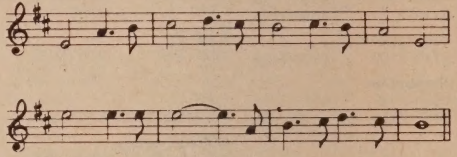
L.T: GMT+1h – **Pr.L:** French – **EC:** a/c 50, 127/220V (yes).

RADIO MONTE CARLO (Comm.)

ADDR: B.P. 128, Monte Carlo. **Cable:** Radio Carlo. **Te:** 505252.
L.P: Pres. of Adm: C.C. Solamito. Dir.Gen: H. Dolbois. Dir. of Adm: F. de La Panouse. Dir. of Prgrs. J. Gauthier. Chief of Inf: M. Moine. Chief of Tec-Sce: G. Auvray. Dir. of Comm. Sce: J. Mathieu. Chief of Press: J.L. Medecin. Foreign Rel: Ph. Fontana.
STATIONS (G.C: 07.26E/43.44N):

kHz	**kW**	**kHz**	**kW**	**kHz**	**kW**
218	1400	701	10	1466	1200

FM: 98.5MHz 30kW – 93.5MHz 30kW.
HOME SCE: French: 0500-0715 on 218kHz, 0615-1930 on 218/1466kHz, 1930-0100 on 218kHz. **N:** every h on the h exc. 0800, 1830, 2100, 2300. **Italian:** 0600-1800 on 701kHz – **On 1466kHz: TWR prgr's:** 1930-2400.
Foreign Sce: Two 100kW sw-tr's in the 49, 41, 31, 25 m.b. (see Trans World Radio).
ANN: "Ici Monte Carlo" – **INT-SIG:** L'Hymne National Moné-Gasque".



V. by letter – **PUB:** Weekly prgr. sched.

TRANS WORLD RADIO

ADDR: P.O. Box 141, Monte-Carlo. **Te:** 302233. **Cable:** Votan.
L.P: Pres: Paul E. Freed, Ph.D. Field Dir: E.A. Priddy.
STATIONS: 2×100kW tr's (G.C: 07.26E/43.44N):

kHz	**kHz**	**kHz**	**kHz**	**kHz**
5965	7135	7245	9525	9675
6035	7215	7260	9640	9735
7105	7230	7275	9655	11750

SHORTWAVE SCHEDULE

Target areas: *) Middle East; no indication=Europe. D=Nov-Feb; M/S=March-April/Sept-Oct; J=May-August; +=subtract one hour for summertime.

LANGUAGES	**kHz**	**M/S m.b.**	**J m.b.**
Albanian			
1330-1345(Mon/Fri)	7260	41	41
Arabic			
1845-1900(D)	*7215	25	25
1900-1915(Sun)	*7215	25	25
Armenian			
0415-0430(Sun)	*7105	31	25
1830-1845(D)	*7215	25	25
Czech			
0940-0955(not Thurs)	9675	31	31
1630-1700(Sun/Thurs)	6035	49	49
1645-1700(Sat)	6035	49	49
1700-1715(not Thurs)	6035	49	49

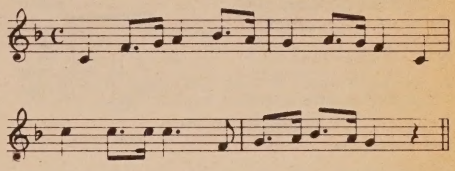
Dutch	kHz	M/S m.b.	J m.b.
1000-1030(Sat)	9525	31	31
English			
+0725-0850(Mon-Fri)	7105	41	41
+0725-0900(Sat/Sun)	7105	41	41
+0900-1100(Sun)	9525	31	31
0940-0955(Sat) DX-Special	9640	31	31
+1030-1100(Mon-Thurs)	9525	31	31
1500-1515(Sat) DX-Special	7245	41	41
Estonian			
1750-1805(Sun/Wed-Sat)	7275	25	25
French			
+1145-1200(D)	7230	41	41
+1145-1215(Sun/Tues-Fri)	7230	41	41
+1145-1230(Thurs)	7230	41	41
1945-2000(Sun/Mon)	*7215	25	25
German			
0830-0905(Sun)	6035/ 7230	49/41	49/41
0905-0920(W)	5965/ 7230	49/41	49/41
1105-1120(D)	5965/ 7230	49/41	49/41
1430-1500(D)	5965/ 7245	49/41	49/41
Greek			
1215-1245(Sun)	9735	31	31
Hebrew			
1930-1945(D)	*7215	25	25
Hungarian			
0925-0940(D)	9675	31	31
1715-1730(D)	6035	49	49
1715-1745(Thurs/Fri/Sat)	6035	49	49
Italian			
+1220-1255(Sun)	5965	49	49
+1220-1235(Mon/Wed/Sat)	5965	49	49
Latvian			
1735-1750(Sun/Wed-Sat)	7275	25	25
1750-1805(Tues)	7275	25	25
Lithuanian			
1735-1750(Mon/Tues)	7275	25	25
Macedonian			
1345-1400(Sun)	7260	41	41
Norwegian			
1705-1715(D)	9655	31	31
1715-1730(not Tues)	9655	31	31
1805-1815(D)	7135	25	25
1815-1830(not Tues)	7135	25	25
Polish			
1630-1700(D)	9525	31	31
1945-2000(D)	—	41	41
Romanian			
1730-1800(Sun-Wed)	6035	49	49
1745-1800(D)	6035	49	49
Russian			
0530-0545(D)	7105	41	25
0530-0600(Sat)	7105	41	25
0530-0615(Sun)	7105	41	25
1300-1400(Sat/Sun)	11750	25	25
1505-1555(Mon/Thurs) 1520-1555(D) 1555-1625(Mon-Fri)	9525/ 11750	31/25	31/25
1820-1835(Wed)	7275	31	25
1835-1905(D)	7275	31	25
Serbian			
1330-1345(Sat)	7260	41	41
Serbo-Croat			
1330-1345(Sun)	7260	41	41
1645-1700(Mon-Wed/Fri)	6035	49	49
Slovak			
0940-0955(Mon)	9675	31	31
1700-1715(Thurs)	6035	49	49
Spanish			
1030-1045(Sun)	7260	41	41
+1300-1315(D)	7260	41	41
+1315-1330(Sun)	7260	41	41
Swedish			
1715-1730(Tues)	9655	31	31
1815-1830(Tues)	7135	25	25
Turkish			
0815-0830(Sun)	7230	41	41

Turkish	kHz	M/S m.b.	J m.b.
1815-1830(Mon-Fri)	*7215	25	25
Ukrainian			
1505-1520(Sun/Tues/Sat)	11750	25	25
1805-1835(Sat/Sun)	7275	31	25
White Russian			
1820-1835(Fri)	7275	31	25
Yiddish			
0745-0800(Sun)	7230	41	41
1505-1520(Wed)	11750	25	25
1900-1915(Thurs/Fri)	*7215	25	25

MEDIUMWAVE SCHEDULE (1466kHz 1200kW).
Arabic 2100-2115(Thurs/Sat), 2200-2215(Wed-Sat), 2345-2400(Sun-Fri) – **Berber** 2100-2115(Fri) – **Czech** 2015-2030(Fri), 2215-2300(Fri) – **Danish** 2115-2130(Mon-Wed) – **Dutch** 2100-2115(Wed) – **English** 2115-2130(Sun/Fri), 2130-2145(Sun-Fri), 2145-2200(D), 2200-2215(Sun-Tues), 2215-2300(Sun-Mon), 2300-2330(D) – **Faroese** 2100-2115(Mon) – **French** 1930-2000(D), 2000-2015(Sun), 2230-2300(Thurs) – **German** 0445-0515(D), 2030-2100(D), 2115-2145(Sat), 2230-2300(Tues/Sat) – **Greek** 2000-2015(Mon) – **Hungarian** 2000-2015(Wed/Fri), 2230-2300(2nd Wed) – **Italian** 2000-2015(Sat), 2015-2030(Sun) – **Kabyle** 2100-2115(Tues), 2345-2400(Sat) – **Norwegian** 2115-2130(Thurs) – **Polish** 2015-2030(Thurs/Sat) – **Russian** 2000-2015(Tues/Thurs) – **Serbo-Croat** 2015-2030(Tues/Wed), 2230-2300(4th Wed) – **Spanish** 2100-2115(Sun), 2215-2230(Tues-Thurs/Sat), 2230-2300(1st and 3rd Wed), 2330-2345(D) – **Turkish** 1915-1930(Sat).

LONGWAVE SCHEDULE (218kHz 1200kW).
French 0415-0445(D) (For Summer time subtract one hour).

ANN: E: "This is Monte Carlo" or "You are listening to Monte Carlo. We invite our listeners in the British Isles to stay tuned to the following prgr's of Trans World Radio". F: "Ici Monte Carlo. Trans World Radio vous presente un programme en language Française". G: "Hier ist Monte Carlo von Trans World Radio hören Sie ein Programm in deutscher Sprache" – **INT-SIG:** Musical Box.



V. by QSL-card. **PUB:** MW+SW schedules available on request – **FI:** Dedicated excl. to broadc. Gospel of our Lord and Saviour Jesus Christ and is maintained by freewill contributions.

NORWAY

L.T: GMT+1h – **Pr.L:** Norwegian – **EC:** a/c 50, 230V (yes).

DIRECTION GENERAL OF TELECOMMUNICATIONS

Oslo 1. **Cable:** Gentel.

NORSK RIKSKRINGKASTING (Gov.)

A non-comm. enterprise operated by an indep. State organisation.
ADDR: Oslo 3. **Te:** 469860. **Telex:** International Relations 16820. Radio (news) 11023. **Cable:** Studio.
L.P: Dir.Gen. (Radio and TV): Torolf Elster. Dir.Adm. and Finance: O. Granlund. Tech.Dir: Kjell Lövaas. Dir. Staff Dept: O. Svanevik. Dir.Prgrs. Radio: H. Hegtun. Heads of Depts: News and Current Affairs: P. Böhn. Foreign News: P. Riste. Shortwave: E. Thokle. International Rel: A. Birkeland. Legal Affairs: B. Kragem. Press and Inf. Officer: R. Huseby. Edit. Prgr. Bladet: B. Marthinsen. Chmn. Board of Governors: K. Ottosen (see also TV section).

LONG- AND MEDIUMWAVES

	kHz	kW
Tromsø	155	10
Oslo	218	200
Vigra	629	100
Bodø	674	10
Finmark	701	20

	kHz	kW
Bergen	890	20
Kristiansand	890	10
Trøndelag	890	10
Stavanger	1313	100
Fredrikstad	1578	10

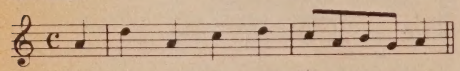
+18 low powered stations operating on 520, 1115, 1466, 1484 and 1578kHz.

	MHz	kW
Nordhue	87.6	60
Hovdefjell	87.8	25
Gulen	88.0	30
Skien	88.2	30
Trolltind	88.2	30
Hemnes	88.5	30
Oslo/Tryvann	88.65	100
Greipstad	88.8	30
Narvik	88.8	30
Halden	89.05	30
Bergen	89.1	60
Reinsfjell	98.1	30
Nordkapp	89.2	15
Vega	89.3	33
Nordfjoreid	89.4	15
Kongsvinger	89.8	30
Steigen	90.3	30
Mosvik	90.9	30
Kongsberg	91.3	60
Sogndal	91.5	30

	MHz	kW
Bagn	91.7	30
Kistefjell	91.8	30
Varanger	91.8	30
Gamlemsveten	91.9	60
Grong	91.9	60
Hadsel	92.4	30
Melhus	92.4	60
Tana	92.5	30
Førde	92.8	15
Oslo/Tryvann*	93.0	0.01
Salten	93.3	30
Lønahorgi	93.3	60
Gausta	93.45	10
Bokn	93.5	100
Bremanger	93.6	18
Bjerkreim	94.2	60
Jetta	95.9	30
Stord	96.0	60
Hammerfest	96.6	30
Lyngdal	97.6	30
Tron	98.3	30

+274 low powered transmitters.
*) This tx is relaying the overseas service of R. Norway.

HOME SCE: 0500(Sun 0600)-2300(Fri/Sat 2400).
N: 0500(W), 0600(W), 0700(W), 0800(Sun), 0900(W), 1130, 1300(W), 1400(Sun), 1530, 1730, 2110, 2300 – **Wrp:** 0500(W), 0600(Sun), 0700(W), 0800(Sun), 1130, 1730, 2100 – **Rlg:** Sunday service 0955, Morning services W 0550 and 0715 – **Reg:** W 1330-1430, Sat 1330-1400, Sun 2050-2100.
ANN: "Dette er Norsk Rikskringkasting". In Lappish: Dátlae Norga Riikareádio, Tromsas. Dii gullabettet Samigiel prográmma".
INT-SIG:



V. Reception reports on long- and MW-trs must be on reg. transmissions to be verified. Reports to NRK, Oslo 3.

FOREIGN SERVICE

Trs: Fredrikstad 250kW(1), 120kW(2), 100kW(2), 10kW (1).
G.C: 10.58E/59.11N

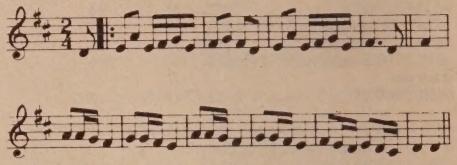
kHz	kHz	kHz	kHz	kHz	kHz
1578	6180	9645	11895	15175	21655
6015	9550	11850	11935	15345	
6130	9605	11860	15135	17800	

Beams: 5°=Pacific; 45°=Far East; 50°=Indonesia/Far East; 70°=Indonesia; 115°=Middle East/India; 150°=Ea.Europe/Middle East/Ea.Africa; 165°=Ea. Europe/Africa; 185°=Europe/We.Africa; 200°=Europe; 225°=So. America; 235°=Ea.Australia/New Zealand; 275°/290°=Eastern No. America/Ce.America; 330°=Western No.America.
Schedule Nov. 7th 1976 – March 6th 1977
*) omnidirectional aerial. Behind frequencies and between brackets antenna direction in degrees clockwise from true North. Freqs in bold 250kW; other 100kW. 1578kHz=10kW.

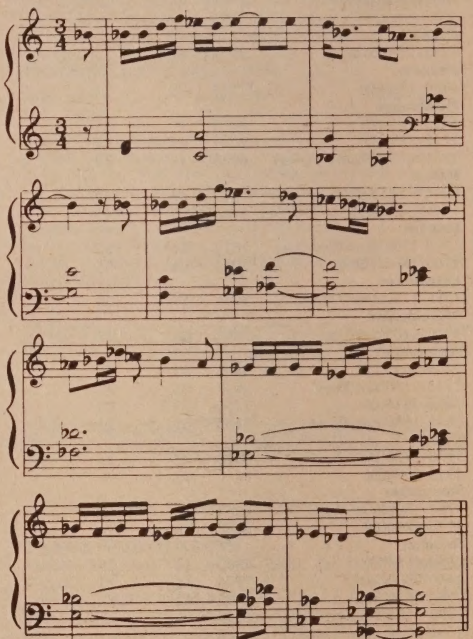
Times	kHz/Beam
0700-0830	9550(235),11895(5),**15135**(50)
1100-1230	**6015**(200),11850(70),15135(45)
1300-1430	**9605**(185),17800(115),21655(185)
1500-1630	**15175**(290),15345(275),21655(225)
1700-1830	11860(150),**11895**(330),15345(330)
1900-2030	6130*, 9645(165),**11935**(165)
2100-2230	**6180**(45), 9550(45),9645(290)
2300-0030	**6180**(290),9550(290),9645(280),1578
0100-0230	**6180**(290),9550(290),9645(275),1578*
0300-0430	**6180**(290),9550(290),9645(330),1578*
0500-0630	**6180**(330),9645(330),15175(115)

Weather Reports for the Atlantic: 1450 (same freqs as for 1500 transmission), 2255,0055,0255.
Prgrs in English ("Norway this Week"): Sun 0800, 1200, 1400, 1600, 1800, 2000, 2200, Mon 0000, 0200, 0400, 0600. Trs include news, music interviews and feature prgrs.
N. in Spanish (5 mins): Sat 0825, 1225, 1425, 1625, 1825, 2025, 2225; Sun 0025, 0225, 0425, 0625.

ANN: "This is the Overseas Service of Radio Norway" – **SIG. TUNE:** Each SW tr. begins and ends with theme which originates from an ancient folk tune from Hallingdal.



Five minutes previous to every SW tr. the following signal is sent:



We are grateful for comments on our transmissions. Reports are answered by QSL-cards. Rp. not necessary. Our postal address is: Radio Norway, Oslo, Norway – **PUB:** Programbladet (weekly); Prgr. schedule free on request – **ALF:** N.Kr. 60.00.

WORLD RADIO TV HANDBOOK

distribueras i Norge av
RADEX, Box 8013
S-250 08 HELSINGBORG
Sverige

POLAND

L.T: GMT+1h – **Pr.L:** Polish – **EC:** a/c 50, 220/380V (no).

POLSKIE RADIO I TELEWIZJA (Gov.)

ADDR: Komitet do Spraw Radio i Televizji "Polskie Radio i Telewizja", ul. Woronicza 17, Warsaw. **Te:** 438000. **Cable:** "Polskieradio". **Telex:** 813522.
L.P: Pres: M. Szczepanski. Vice-Pres. Information: J. Mietkowski. Vice-Pres. Prgrs: J. Wilhelmi. Vice-Pres. Org. Training: E. Patyk. Secr.Gen: Z. Liszyk. Dir.Intern. Relations: Dr. S. Mikulicz.

HOME SERVICE

Long- and Mediumwaves

	kHz	kW		kHz	kW
Warszawa I	227	2000	Olsztyn	1484	2
Poznan	737	300	Slupsk	1484	2
Warszawa II	818	300	Szczecinek	1484	2
Katowice	1079	60	Zakopane	1484	2
Kraków	1205	60	Gizycko	1484	2
Rzeszow	1205	60	Kolobrzeg	1484	2
Kozalin	1205	10	Przemyśl	1484	2
Wroclaw	1259	200	Opole	1594	2
Zielona Góra	1259	50	Koszálin	1594	2
Gdansk	1304	60	Radom	1594	2
Szczecin	1304	160	Gorzów Wielkopolski	1594	2
Bialystok	1367	60	Lidzbark Warminski	1594	1
Lublin	1367	60	Mragowo	1594	1
Lódź	1367	60	Ostróda	1594	2
Kielce	1484	2			
Jelenia Góra	1484	2			
Racibórz	1484	1			
Lódź	1484	2			

FM	II	III	IV	kW
Bialystok	71.24	72.80	70.01	74
Bydgoszcz	71.06	72.62	68.96	32
Czestochowa	67.79	66.23	68.96	10
Gdansk	67.85	66.29	70.31	40
Katowice	67.55	65.99	68.33	14
Kielce	71.15	72.71	70.49	62
Koszálin	67.73	66.17	69.92	54
Kraków	67.67	66.89	68.75	120
Lódz	71.45	72.23	68.51	80
	73.01			
Lublin	71.03	72.59	69.92	60
Olsztyn	70.82	69.56	70.82	76
			72.38	76
Opole		66.77	72.89	60
Poznan	68.18	66.62	69.74	38
Rzeszów	67.46	65.90	68.24	7
Siedlce	68.03	66.47	70.22	25
Suwalki	71.12	72.68	68.60	30
Szczecin	67.52	65.96	68.78	74/60/74
Walcz	71.24	72.80	69.38	30
Warszawa	67.94	67.15	69.20	100
Wroclaw	71.33	72.11	70.67	120
Zgorzelec		67.46	68.24	38/15
Zielona Góra	70.94	72.50	69.14	52

Prgr. 1: W 0357(Sun 0430)-0200 on 227kHz. Also on 1079/1304kHz 2305-0200; On 68.78MHz to 2300; On 66.77MHz 2300-0200. **N:** 0400(W), 0500, 0600, 0700, 0900(W), 1105(Sun), 1400(W), 1500, 1700(W), 1900, 2200, 2300, 0001, 0100, 0155.
Prgr. 2 on 818kHz+all MW-sts: 0357(Sun 0427)-2300. **N:** 0430, 0530, 0630, 0730, 0830(W), 1105(Sun), 1300(W), 1500(W), 1600(Sun), 2100(Sun), 2250.
Prgr. 3: 0357-2305(Sun 0457-2300). This prgr. is relayed on SW: On 6035kHz: 0400-0505, 1430-2300; On 7110kHz: 1640-2300; On 7180kHz: 0630-0700, 0700-1405; On 9570kHz: 0400-0700; On 9755kHz: 0700-1615.

FOREIGN SERVICE

STATIONS (G.C: 20.52E/52.04N). Povers used: 1502kHz 300kW: other MWs see Home Sce. SWs: 8/100kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
737	1304	5995	6155	7180	9570	11815
818	1367	6035	7110	7285	9675	11840
1205	1502	6095	7125	9525	9755	15120
1259	3955	6135	7145	9540	11800	15275

TO EUROPE

Danish	m.b.
1530-1600	41,49,75,
1930-2000	200
English	
1630-0700	31,41,49
1200-1230	31,41
1600-1630	31,49
1830-1900	41,49
2030-2100	41,49
2230-2300	41,49,75, 200
Esperanto	
1500-1530	41,49,75, 200
1580-1600	25,31,41
2130-2200	49,75,200
Finnish	
1530-1600	41,49
1730-1800	41,49
2000-2030	41,49,75, 200
French	
0600-0630	31,41,49
1130-1200	31,41,49
1800-1830	31,49
2000-2030	41,49
2030-2100	41,49
2130-2200	41,49
German	
0530-0600	41,49,75, 200
1200-1230	31,49,75, 200
1500-1530	31,41,49
1630-1730	41,49
1730-1800	31,49,75, 200
1830-1930	41,49,75, 200
2100-2130	41,49
2303-2400	41,49,75,200 230,238,407
Italian	
0700-0730	31,41
1200-1230	25,31
1730-1800	25,31
2030-2130	25,31
2200-2230	41,49,75, 200
Polish	
0600-0700	41,49,75, 200

Polish	m.b.
0700-0800	31,41,49,75, 200
1300-1400	31,49
1400-1530	25,31
1630-1730	31,49,75, 200
2030-2100	31,41
2130-2200	25,31
2303-2400	41,49,220, 249,367
For Polish Seamen	
1300-1400	25,31,41,49, 75,200
2200-2300	25,31,41,49
0000-0200	19,25,31,41, 49
0400-0600	25,31,41,49
Spanish	
0400-0500	41,49
1330-1400	19,25,31
1800-1830	25,31,41
2300-2400	31,41
Swedish	
1130-1200	
1500-1530	41,49,75
1600-1630	200
1800-1830	
1930-2000	41,49
2100-2130	41,49,75,200
Concerts	
1230-1300	25,31,41,49,
1400-1500	75,200
0000-0200	41,49,75,200

TO AFRICA

English	
1208-1300	19,25,31
1630-1700	25,31,41
2000-2030	25,31,41
French	
1300-1330	19,25,31
1700-1730	25,31,41
1830-1900	25,31,41

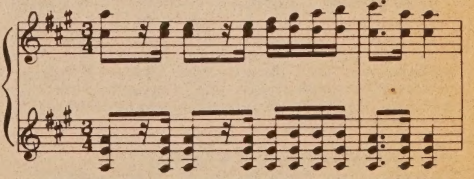
TO ARAB COUNTRIES

Arabic	
1400-1500	19,25,31
1600-1630	25,31,41
1900-2000	25,31,41

TO NORTH AMERICA

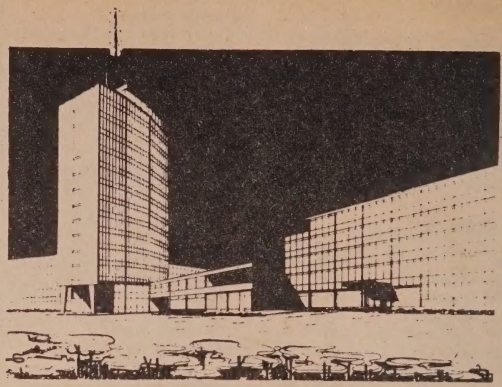
English/Polish	
0200-0400	19,25,31,49

DX-PRGR: Swedish: Thurs 1600, 1800; **Finnish:** Every 2nd Thurs of month 1530 and following Fri 2000.
ANN: Home Sce: "This is Polskie Radio Warsaw" (or another station when local programme) – "Tu Polskie Radio Warszawa" – **Foreign Sce: E:** "This is Warsaw calling" – **Polish:** "Mowi Warszawa" – **F:** "Ici Varsovie, etc." – **G:** "Hier spricht Warszawa" – **Sp:** "Habla Radio Varsovia" – **I:** "Qui Radio Varsavia" – **Danish:** "Her er Warszawa" – **Swedish:** "Här är Polens Radio Warszawa" – **INT-SIG:** Warsaw National, Warsaw I: Polonaise A major (by Chopin):



Have you got valuable information?

Send it to us, and make next year's WRTH even more complete . . .

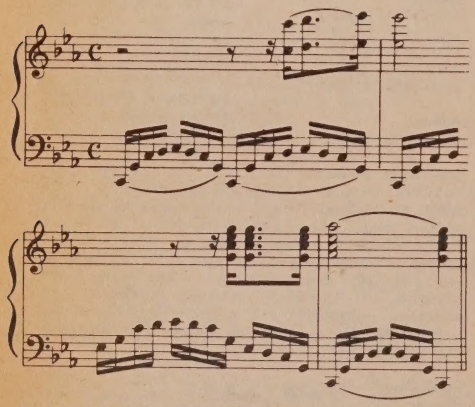


POLSKIE RADIO I TELEWIZJA

BROADCASTS NEWS, MUSIC, FEATURE PROGRAMMES ON LONG, MEDIUM AND SHORT WAVES

FULL INFORMATION SEE POLAND

Foreign Sce: Revolutionary Etude by Chopin:



V. by QSL-card and letter. Re. to Polskie Radio. Al Niepodleglosci 75/77, Warsaw – **PUB:** "Radio i Telewizja" (weekly), Polish Radio and Television Bulletin (monthly) – **FI:** By licence payments – **AD:** 7% of broadc. time – **ALF:** 180,-Zlotys'.

POLISH PATHFINDERS STATION

(Operated by the Polish Pathfinders Union) – **ADDR:** Konopnickiej 6, 00-491, Warsaw.
L.P: Dir.Gen: M. Kaspryzk. Dir.Tec: J. Sieluzycki – **HOME SCE. in Polish:** D 1100-1700, Sun 0900-1700 on 7205kHz 1kW.
ANN: "Mowi Rozglosnia Harcerska" (Polish Pathfinders Station speaking) – **V.** by QSL-card or letter. Rp. Re. in English.

PORTUGAL

L.T: GMT(Su: GMT+1h) – **Pr.L:** Portuguese – **E.C:** a/c 50, 220/380V (yes).

RADIODIFUSÃO PORTUGUESA (RDP)

ADDR: Central Sce: Av. Duarte Pacheo 5, Lisboa 1. **Te:** 654041. **Cable:** RDPINS-P. **Telex:** 12538.
L.P: Dir.Gen: Major J. Antonio Figùeiredo. Dir.Prgrs: F. Igrejas Caciro. Dir.Tec: Eng. V.M. Baptista de Oliveira. Dir.Adm: Dr. A. Cruz Vilariça. Head, Public Rel.Dept: Dra. Ilda Dùarte.

HOME SERVICE

1st Prgr: 0600-0100

MW	kHz	kW		kHz	kW
Faro	557	10	Norte I	719	100
Guarda	557	10	Castelo Branco	827	1
Valença	566	10	Portalegre	1196	1
Braganca	575	1	Chaves	1250	1
Vila Real	620	1	Elvas	1331	1
Miranda do Duoro	629	1	Porto I	1367	10
Lisboa I	665	135	Coimbra	1448	1
Viseu	692	10	Covilha	1562	1

Shortwave (to Azores)
Lisboa 11925kHz 10kW: 0700-2400.

FM	MHz	kW		MHz	kW
Lousa	87.9	22	Marão	95.2	5
Muro	88.3	5	Lisboa I	95.7	12
Monchique I	88.9	5	Bragança	96.4	0.2
Bornes	92.8	5	Porto I	96.7	22
Guarda	94.7	0.5	Faro	97.6	5
Minheù	94.9	0.5	Portalegre	97.9	5

N: On the h.

2nd Prgr: 0800-0100 (stereo 2300-0100).
Lisboa II 755kHz 135kW – Norte II 1061kHz 100kW.

FM	MHz	kW		MHz	kW
Minheù	88.0	1.5	Porto II	92.5	22
Lousa II	89.3	22	Portalegre II	92.9	5
Bornes	91.1	5	Faro II	93.4	5
Monchique	91.5	5	Lisboa II	94.3	12

N: 0800, 1000, 1200 (and every two hours).
Prgr. for Tourists in French, German, English: 0800.

3rd Prgr: 0600-0200.

MW	kHz	kW		kHz	kW
Miramar	782	100	Porto Alto	1034	120
Lamego	926	1	Canidelo	1578	10
Coimbra	963	1	Lisboa	1594	10

N: On the h.

4th Prgr. (on FM only): 0800-0100.

Location	MHz		MHz
Foia	88.1	Faro	96.1
Lamego	88.7	Guarda	96.1
Montejunto	88.8	Lisboa	97.4
Lousa	90.8	Porto	97.7
Bornes	91.9	Portalegre	98.9
Mendro	92.0	Valença	99.0
Gardunha	93.9	Braga	99.2

All 3.5kW exc. Lousa 90.8 and Lisboa 97.4MHz 20kW, Valença and Lamego 5kW.
ANN: "Radiodifusão Portuguesa . . . Programa . . .".

INTERNATIONAL SERVICE

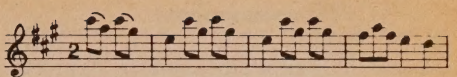
ADDR: Radiodifusão Portuguesa, Rua do Quelhas 21, Lisboa 2.
STATIONS (G.C: 08.40W/38.45N): São Gabriel 7×100kW SW-trs.
Areas: I=Europe; II=Timor; III=Macau; IV=India/Middle East; V=Africa; VI=Guinea/Cabo Verde; VII=Brasil; VIII=South America; IX=Venezùela; X=USA/North America.

a) Mon-Fri; b) Sat/Sun only; c) Sun only; d) exc. Sun.

English	Area	kHz/Beam
1400-1430d	IV	17895(81°)
1600-1630d	IV	17895(81°)
1700-1730c	V	15340(142°)
1800-1830d	V	17880(142°)
1830-1900	I	6025(30°)
		9740(80°)
0230-0300	X	6025(294°)
		11935(294°)
0500-0530	X	6025(294°)
		11935(310°)
French		
1630-1700d	IV	17895(81°)
1730-1800c	V	15340(142°)
1830-1900d	V	17880(142°)
1900-1930	I	6025(30°)
		9740(80°)
German		
2130-2200	I	6025(30°)
		9740(80°)
Italian		
2200-2230	I	6025(30°)
		9740(80°)
Konkani		
1430-1500d	IV	17895(81°)

Portuguese	Area	kHz/Beam
0400-0600a	I	6025(30°)
0800-1700b	I	9740(80°)
0930-1100c	II	21735(66°)
1000-1100d	III	21700(52°)
1100-1230	V	17880(142°)
		21700(142°)
1330-1400	VI	21495(205°)
1345-1700c	VII	15125(215°)
		21700(215°)
1500-1545d	IV	17895(81°)
1800-2015c	V	15340(142°)
1900-2030d	V	17880(142°)
1930-2130	I	6025(30°)
		9740(80°)
2015-2100c	VI	15125(205°)
2030-2100d		
2230-0030	VII	9635(215°)
		11840(215°)
0000-0300	IX	11875(exp)
		(261°)
0100-0230	X	6025(2940)
		11935(294°)
0300-0500	X	6025(294°)
		11935(310°)
Spanish		
1800-1830	I	6025(30°)
		9740(80°)
0030-0100	VIII	9635(215°)
		11840(215°)

N: At the beginning of each transmission in all languages.
ANN: E: "This is R. Portugal speaking to you from Lisbon". F: "Ici R. Portugal qui vous parle de Lisbonne". Sp: "Esta es R. Portugal que habla desde Lisboa". I: "Qui R. Portogallo che vi parla da Lisbona". G: "Hier spricht R. Portugal aus Lissabon". Konkanin: "Lisboa xarantlo Radio" –
INT-SIG: Signature tune of foreign language broadc. is the opening bars of the Fandango from the Alentejan Suite by Luis de Freitas Branco.



Closes with National Anthem – **V.** by QSL-card. Recordings accepted – **ALF** Esc. 150.

RADIO RENASCENCA (Rlg. Catholic)

ADDR: Emissora Catolica Portuguesa, Rua Capelo 5, Lisbon. **Te:** 30172.
STATIONS: Lisboa CSB3 1286kHz 1kW – Porto CSB30 1169kHz 10kW.

FM	MHz	kW		MHz	kW
Bornes	89.6	5	Marofa	94.2	6
S. Miguel	89.6	1	Portalegre	95.3	1
Muro	90.4	12	Mendro	96.5	6
Lousa	91.7	25	Foia	98.6	6
Lisboa	93.2	18	Monchique	98.6	6
Valonga	93.7	10	Gardunha	99.5	1

No schedule available.

RADIO POLO NORTE (Priv.)

ADDR: Caramulo.
STATION: 1460kHz 0.05kW.

RADIO ALTITUDE (Priv.)

ADDR: Guarda.
STATION: 1495kHz 0.02kW.
No schedule available (rep. from 0800).

RADIO TRANS EUROPE

STATIONS: Sines (G.C: 08.45W/37.57N): 2×250kW SW-trs.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
6000	6170	7245	9565	9615	9670	11865
6010	7130	7285	9610	9650	9770	15245
6015						

This station is lent to various broadc. organisations (CBC, Deutsche Welle, IBRA Radio and Adventist World Radio). Full details are given under these organisations.

ROMANIA (Socialist Rep.)

L.T: GMT+2h – **Pr.L:** Romanian – **E.C:** a/c 50 (yes).

RADIOTELEVIZIUNEA ROMÂNA (Gov.)

ADDR: P.O. Box 111, Bucuresti. **Te:** 16.20.80. **Cable:** Radioteleviziunea. **Telex:** 11252.

L.P: Dir.Foreign Rel: Mihai Lazar.

STATIONS	kHz	kW		kHz	kW
Brasov	155	1200	Constanta I	1313	2
Tg.Jiu	557	200	Craiova	1313	7
Satu Mare	566	50	Timisoara II	1313	30
Bucuresti I	602	14	Bacau	1430	50
T.Severin	602	14	Oradea	1430	2
Timisoara	629	135	Constanta II	1457	50
Lugoj	755	400	Brasov	1484	2
Bucuresti II	854	750	Baia Mare	1484	7
Cluj	908	50	Resita	1484	7
M.Ciuc	944	14	Sibiu	1484	7
Iasi	1052	1000	Tirgu-Mures	1484	7
Cluj II	1151	950			

FM	MHz	kW		MHz	kW
Cluj I	66.74	4	Bucuresti I	70.04	4
Cluj II	68.36	4	Suceava	70.61	6
Gheorghieni	68.60	16	Topolog I	71.18	4
Comanesti	68.87	6	Ploiesti	71.30	16
Baia Mare	69.11	6	Arad	71.72	6
Sibiu	69.35	6	Iasi	71.84	6
Timisoara	69.65	6	Novaci	71.90	8
Oradea	69.86	6	Bucuresti II	72.08	4
			Topolog II	72.74	4

HOME SERVICE

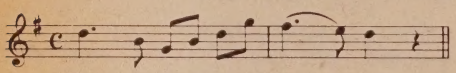
1st Prgr: On 155kHz: 24h (Fri break at 0100-0300); On 602kHz: 0300-0100; On 755kHz: 0300-1700; On 1313kHz: 0300-2300; On 1484/1430kHz: 0300-2200; On 629kHz: 1800-2300; On 1052kHz: 0500-0515, 2000-2100; Sat/Sun 2000-2030.
N: W 0400, 0500, 0600, 0700, 0800, 0900, 1000, 1100, 1200, 1255, 1400, 1500, 1600, 1700, 1755, 1900, 2000, 2200, 0000, 0200, 0300; Sun 0400, 0500, 1100, 1700, 1800, 2000, 2200, 0000, 0200, 0300.
Wrp: 0400, 0500, 1100, 1255, 1400, 2000.

2nd Prgr: W 0400-2300 on 566/854/1151/1313/1457/1484kHz + FM II sts. On 557kHz: 0500-1500, 1700-2300; Sun 0400-0700, 0800-2300. On 629kHz: 0500-1230, Sun 0400-0530, 0900-1700. On 908/944kHz: 0600-1100, 2100-2300, Sun 0400-0530, 1200-1500, 1600-2300; On 1052kHz: 0630-1430, 2100-2300, Sun 0400-0600, 0900-1500, 2100-2300; On 1430kHz: 0400-0600, 1500-2300, Sun 0400-0600, 1500-2300.
N: W 0400, 0500, 0830, 1100, 1400, 1700, 2030, 2255, Sun 0400, 0500, 0830, 1100, 1500, 1700, 2030, 2255.

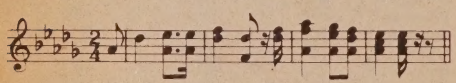
3rd Prgr: W 0700-1100; Mon-Fri 1500-2000, 2100-2200 on FM-I sts.

REGIONAL SERVICES

R. Bucuresti (629/908/944/1484kHz): W 1230-1430; Sun 0800-0900 (in Hungarian and German).
R. Cluj (908/944/1484kHz): W 0500-0600, 1100-1230, 1730-2100; Sun 0530-0700, 0900-1200 (in Romanian and Hungarian).
R. Tg. Mures (908/944/1484kHz): W 0400-0500, 1430-1730; Sun 0700-0800, 1500-1600 (in Romanian and Hungarian).
R. Timisoara (629kHz): W 0400-0500, 1430-1800; Sun 0530-0800 (in Romanian, German and Serbian).
R. Craiova (557kHz): W 0400-0500, 1500-1700; Sun 0700-0900.
R. Iasi (1052kHz): W 0400-0600, 1400-2000; Sun 0600-0900, 1500-2000.
N: W 0700, 1000, 1500, 1730, 2000, 2155. **Wrp:** 2000.
ANN: Opening 1st Prgr: "Aici Bucuresti, România. Transmitem programul I pe statia de unde lungi, cu frecventa de . . ., pe statiile de unde medii, cu frecventele de . . . si pe statiile de unde ultrascurte" – 2nd Prgr: "Aici Bucuresti. Stimati ascultatori, buna dimineata. Transmitem programul II pe statiile de unde medii, cu frecventele de . . . si pe statiile de unde ultrascurte, cu frecventele de . . ." – 3rd Prgr: "Aici Bucuresti. Programul III. Stimati ascultatori, buna ziua. Va invitam sa urmariti editia de dimineata a programului III, difuzat pe statiile de unde ultrascurte afectate acestui program. Stimati ascultatori, transmitem pe statiile de unde ultrascurte, cu frecventele de . . . emisiunea stereofonica" – **INT-SIG:** Home Sce, 1st and 3rd Prgr:



Home Sce, 2nd Prgr:



FOREIGN SERVICE

STATIONS (G.C: 26.06E/44.25N). Powers: 755kHz 400kW. Shortwave 18/50/120kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
755	7120	9540	9685	11840	15340	15390
5990	7175	9550	9690	11855	15345	17730
6150	7195	9570	11775	11885	15365	17815
6155	7225	9590	11790	11940	15380	17840
6180	9510	9625	11830	15250	15385	17850
6190	9530					

TO EUROPE

English kHz
1300-1330 9690,11940, 15250
1930-2030 6150,7195
2100-2130 5990,7225

French
1130-1200 9690,11940, 15250
1830-1900 5990,7175
2030-2100 5990,7175

German
1200-1230 9690,11775
1800-1830 6150,7195
2030-2130 755
2200-2230 5990,6150, 7195,7225

Greek
1800-1830 755
1930-2000 755

Italian
1530-1600 6150,7195
1900-1930 755
2000-2030 755

Portuguese
2130-2200 5990,7195, 9690

Romanian
2000-2030 5990,7225
2130-2230 755

Russian
1700-1730 6180,7195
1830-1900 6180,7195

Serbian
1700-1730 755
1830-1900 755

Spanish
1900-1930 5990,7195, 9690
2030-2130 6150,7195

Tourism and Music (in Romanian, English, French, German)
2230-2300 755

TO AFRICA

Arabic kHz
1230-1300 9590,11885, 15380,17730
1400-1430 7175,9510
1600-1700 6190,7175

English
0530-0600 9685,11840, 15340
English kHz
1730-1800 9540,11790 15365

French
1130-1200 17730
1430-1500 15365,15390, 17815,17850
1930-2000 15365,17815

Portuguese
1800-1830 9540,11790

TO NEAR EAST

Arabic kHz
1600-1700 5990,7120

Turkish
1330-1400 7195,9550 9690
1730-1800 755

TO ASIA

English kHz
1200-1230 11830,15345
1500-1530 7225,9530, 11940

Persian
1530-1600 6190,7225, 9625
1700-1730 5990,7225

TO PACIFIC AREA

English kHz
0645-0715 11830,11940 15250,15380

TO NORTH AMERICA

English kHz
0130-0230 5990,6190
0400-0430 9570,11940

Romanian
2300-2400 5990,6190
0230-0300 9570,11940

TO LATIN AMERICA

Portuguese kHz
0100-0130 5990,6155, 6180,9570, 9690,11775, 11940

Spanish
2230-2300 5990,6180, 9570,9690
0000-0100 5990,6155
0300-0330 6180,9570, 9690,11775, 11940

ANN: E: "This is Bucharest calling. You are tuned to Radio Bucharest. This broadcast is coming to you from Radio Bucharest". F: "Ici Bucarest. C'est Bucarest qui vous parle. Vous êtes à l'écoute de Radio Bucarest". G: "Hier spricht Bukarest. Hier ist Bukarest". I: "Parla Bucarest. E. Bucarest che vi parla. Qui é Radio Bucarest". Sp: "Aqui Radio Bucarest. Habla Bucarest". P: "Aqui Bucareste. Fala Bucareste. Sintonizam Radio Bucareste". **V.** by QSL-card – **PUB:** Radio-TV – **ALF:** Lei 120,-

SPAIN

L.T: GMT+1h – **Pr.L:** Spanish. – **E.C:** a/c 50, 127/220V and 220/380V.

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION

ADDR: Ministerio de Información y Turismo, General Yagüe 1, Madrid. **Cable:** Radiogen.

RADIO NACIONAL DE ESPANA (Gov.)

ADDR: Casa de la Radio, Prado del Rey, Madrid 24. **Te:** 2183240. **Telex:** 27366. **Cable:** Radiogen.
L.P: Dir.Gen.Broadc. Radio and TV: Rafael Ansón. Vice-Dir.Gen.Broadc. Radio and TV: Luis Ezcurra. Dir. RNE Nat.Netw: Francisco Ruiz de Elvira. Dir.Tec. and Engineering: Carlos Gonzalez Madroño. Dir.Prgrs: Ramón Villot. Dir.External Rel: Eloy Ybañez. Head International Exchanges: Julio Rico.

HOME SERVICE

NATIONAL PROGRAMME

	kHz	kW	H. of tr.
Madrid(Central)	584	100/200	24h
La Coruña (1)	638	100	0500-0100
Bilbao	638	20	0500-0100
Zaragoza	638	20	0500-0100
Sevilla (2)	683	125/250	24h
Logroño	728	20	0500-0100
Malaga	728	10	0500-0100
Oviedo	728	50	0500-0100
Barcelona (3)	737	125/250	24h
San Sebastian	773	20	0500-0100
Caceres (5)	773	60	0500-0100
Huelva*	836	5	0600-2400
Murcia (4)	854	125	0500-0100
Santander	854	20	24h
Madrid*	989	50	0600-0100
Valencia*	1079	25	0600-2400
Barcelona*	1178	25	0600-0100
Cuenca*	1187	5	0600-2400
Sevilla*	1187	5	0600-2400
Madrid (3rd Prgr)	1223	50	0600-0100
Campo de Gibraltar*	1313	10	0600-2400

*) R. Peninsular. (1) Centro Emisor del Noroeste. (2) Centro Emisor del Sur. (3) Centro Emisor del Nordeste. (4) Emisor del Sureste. (5) Extremadura.
N: 0400, 0700, 1000, 1330, 1700, 2000, 2100, 2300, 0100, 0200, 0300.

SECOND PROGRAMME (Musical Prgr): 0500-2400.

	MHz		MHz
Aitana	88.5	Madrid (stereo)	92.4
Alfabia	89.7	Malaga	98.1
Alcoy	92.3	Mieres	99.6
Archanda	90.5	Murcia	98.1
Barcelona°	93	Navacerrada	98.75
Beasain	98.4	Salamanca°	88.15
Cartagena	92.7	Santander	90.3
Cuenca°	93	Santiago	98.1
Eibar	98.8	Sevilla	94.2
Guadalcanal	90.6	Sierra de Aramo	92.3
Jaizquibel	90	Sollube	93.9
Jativa	92.7	Tolosa	94.8
La Coruña	93.3	Torrelavega	97.9
La Muela	90.9	Valencia	92
Leon	99.3	Valladolid°	93.1
Lujar	90.3	°) stereo.	

THIRD PROGRAMME (Cultural): 0600-2400.

	MHz		MHz
Aitana	99.7	Malaga	99.2
Alcoy	91.1	Mieres	98.8
Alfabia	92.5	Murcia	96
Archanda	99.2	Navacerrada	95.8
Barcelona	98.5	Oviedo	90.3
Beasain	94.4	Salamanca	91.45
Cartagena	91.5	Santander	98.5
Cuenca	92	Santiago	99
Eibar	95.9	Sevilla	98.8
Jaizquibel	92.1	Sierra de Aramo	94.2
Jativa	91.5	Solube	95.2
La Muela	96.3	Tolosa	94
Leon	98.4	Torrelavega	99.5
Lujar	94.2	Valencia	95.1
Madrid (stereo)	91.5	Valladolid	92.2

N: 1330, 2100 (2nd Prgr); 1400-2130 (Third Prgr) – Spanish for Foreigners: 0630.

FOREIGN SERVICE

ADDR: See Home Service.
L.P: Dir: Alfonso Prieto. Head of Inf.Sces: F. Pamos. Head of Prgrs: E. Sebastiá. Head of Gen.Secretariat: Oscar N. Mayo.

STATIONS: Noblejas-Toledo (G.C: 03.27W/39.56N): 6×350kW trs; Arganda de Rey-Madrid (G.C: 03.31W/40.12N): 5×100kW trs; La Mesas, Santa Cruz de Tenerife (G.C: 16.15W/28.28N): 2×50kW trs.

kHz	kW	kHz	kW	kHz	kW
6065	100	9530	350	11785	100
6100	350	9560	50	11810	350
6120	350	9570	100	11880	50/100
6140	100	9600	350	11920	350
7105	350	9630	350	11945	350
9505	100	11730	350	11965	350
9520	350	11775	350	15440	350

SPANISH SERVICE

To Europe
1100-2130(D) 6140,7105, 9570,11920
0830-1100(Sun) 6140,7105 11920

To Atlantic Areas
1730-1930 9505a,9560b
1730-2130 11785c
2145-0010 9630d,11965d

To Africa/Middle East
2030-2130 9560,9600, 11785,11810

To Australia/Philippines
0800-1200 9530,11730, 15440

To the Americas
1730-1930(Sun)11880f
2045-2255 11880f
2145-2255 9520e,11775f, 11945e
2145-2300 9630g,11965g

N: 0830, 1000, 1100, 1130, 1250, 1400 and hourly to 2000, 2055, 2100, 2230.

INTERNATIONAL SERVICE

TO ARAB STATES & NEAR EAST

Arabic
1730-1830(W) 9600,11810
1930-2030(W) 9560,9600, 11810

Spanish
1830-1930(W) 9600,11810
2030-2130 9600,11810

TO EUROPE

English
2030-2230 6100,9505

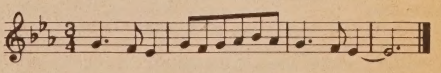
TO THE AMERICAS

English
0100-0400h 6065,11880

Spanish
2300-0300e 9520,11945
2300-0500f 9360,11775
0100-0500g 6120,9630

N: English: 2030, 2130, 0100, 0200, 0300, 0355. **Spanish:** 1830, 2330, 0000, 0030, 0130, 0200, 0230, 0330, 0400, 0430. **Arabic:** 1730, 1930.

a) Europe; b) No.Africa; c) Africa(South)+Gulf of Guinea; d) No.America; e) So.America(Central and South); f) So. America(North)+Caribbean and Ce.America(South); g) Ce.America(North)+Cuba and No.America; h) USA and Canada.
ANN: "Radiotelevisión Española, Emisiones para el Exterior de Radio Nacional". E: "This is the Voice of Spain" – **INT-SIG:** Gong and the following tune:



V. all sts verify by QSL-card.
ADDRS to local outlets of RNE: Barcelona: Paseo de Gracia 1 – Bilbao: Ercilla 20 – Cuenca: Sánchez Vera 18 – Huelva: Gran Vía 1 – La Coruña: Fernández Latorre 19 – La Línea (Cádiz); Av. José Antonio 24 – Málaga; Muelle Heredia 10 – Murcia: Jaime el Conquistador 11 – Oviedo: Melquiades Alvarez 9 – San Sebastián: Andia 18 – Santander: Paseo Canalejas 99 – Sevilla: República Argentina 31 – Valencia: Av. B de Cárcer 26 – Zaragoza: Barrio Torrero C. Cuarte s/n.

SOCIEDAD ESPAÑOLA DE RADIODIFUSION CADENA SER

ADDR: Avenida de José Antonio 32, Madrid-13. **Cable:** SER. **Telex:** 27.638 SER-E. **Te:** (34-1)232.80.00.
L.P: Dir.Gen: E. Fontán. Dir.Gen.Adj: R. Varela. Dir.Tec: J. Galindo. Dir.Prgr: Tomás M. Blanco. Dir. Finance: José L. Canga. Dir.Coord.Prgrs: Manuel R. Cano. Dir. External Rel: J. Peláez. Head Internat. Sce: Domingo Aparicio.

STATIONS

	kHz	Call	kW	Station	Times	FM
1)	800	EAJ7	20	R. Madrid (Central)	24h	93.9
2)		EAJ13	2	R. Mallorca	0600-2300	96.6
3)	809	EAJ5	5	R. Sevilla	0600-0200	97.2
4)		EAJ11	9	R. Réus	0600-0015	97.1
5)	827	EAJ1	20	R. Barcelona	24h	93.9
6)	872	EAJ55	2	R. Algeciras	0645-0015	95.7
7)		EAJ101	20	R. Zaragoza	0700-0300	95.4
8)	1025	EAJ8	10	R. San Sebastián	0600-0030	97.2
9)	1106	EAJ12	2	R. Alcoy	0655-2300	96.3
10)		EAJ22	2	R. Huesca	0655-2400	96.9
11)		EAJ26	2	R. Antequera	0655-0030	96.3
12)		EAJ35	2	R. Panadés	0645-2300	96.3
13)		EAJ41	2	R. Coruña	0600-0030	89.4
14)		EAJ51	2	R. Manresa	0600-0030	95.2
15)		EAJ52	2	R. Extemadura	0700-2300	96.9
16)		EAJ56	2	R. Salamanca	0645-2300	96.9
17)		EAJ57	2	R. Orense	0650-2300	87.6
18)		EAJ62	2	R. Vitoria	0655-0030	96.7
19)		EAJ63	2	R. León	0645-0015	88.2
20)	1259	EAJ3	5	R. Valencia	0600-0200	89.7
21)		EAJ28	2	R. Bilbáo	0655-0200	89.5
22)	1412	EAJ4	2	R. Galicia	0700-2300	90.6
23)		EAJ6	2	R. Requeté	0645-0015	92.1
24)		EAJ14	2	R. Castellón	0645-0030	95.7
25)		EAJ16	2	R. Granada	0700-0200	95.4
26)		EAJ17	2	R. Murcia	0600-2400	91.2
27)		EAJ25	2	R. Tarrasa	0630-0030	95.8
28)		EAJ27	2	R. Castilla	0655-0035	89.1
29)		EAJ34	2	R. Gijón	0645-2400	90.0
30)		EAJ65	2	R. Ciudad Real	0645-2300	92.1
31)	1430	EAJ64	2	R. Segovia	0655-0030	96.6
32)	1475	EAJ18	2	R. Rioja	0655-2400	91.8
33)		EAJ19	2	R. Asturias	0655-2400	97.5
34)		EAJ23	2	R. Gandía	0655-2300	95.6
35)		EAJ32	2	R. Santander	0630-2400	91.2
36)		EAJ40	2	R. Pontevedra	0645-2300	89.1
37)		EAJ59	2	R. Cádiz	0630-2400	89.4
38)		EAJ60	2	R. Almería	0655-2300	93.6
39)		EAJ72	2	R. Zamora	0645-0030	89.9
40)	1520	EAJ31	2	R. Alicante	0700-2400	90.9
41)		EAJ38	2	R. Gerona	0655-2400	88.2
42)		EAJ42	2	R. Lérida	0645-2315	92.4
43)		EAJ44	2	R. Albacete	0655-2300	89.4
44)		EAJ47	2	R. Valladolid	0650-2330	90.9
45)		EAJ48	2	R. Vigo	0645-2400	99.4
46)		EAJ49	2	R. Toledo	0655-2300	97.2
47)		EAJ54	2	R. Alcira	0600-0100	95.7
48)		EAJ58	2	R. Jerez	0700-0100	98.5
49)		EAJ61	5	R. Jaén	0700-0020	96.9
50)		EAJ68	2	R. Lugo	0655-2315	91.8
FM (only)						
51)				R. Mediterráneo	0700-0200	94.2

ANN: Nat. Sce: "Transmite la Cadena SER". Local Sce: "Transmite Radio . . . de la Cadena SER".

Addresses

1) Avenida José Antonio 32, Madrid-13.
2) Paz 35, Palma de Mallorca.
3) Rafael Gonzáles Abréu 6, Sevilla-1.
4) Arrabal Santa Ana 54, Réus (Tarragona).
5) Caspe 6, Barcelona-10.
6) Ruiz Tagle 25, Algeciras (Cádiz).
7) Avenida Marina Moreno 21, Zaragoza-8.
8) Avenida de España 27, San Sebastián.
9) Beato Nicolás Factor 2, Alcoy (Alicante).
10) Loreto 2, Huesca.
11) Rodaljarros 3, Antequera (Málaga).
12) Rbla Calvo Sotelo 25, Villanueva y Geltru (Barcelona).
13) Plaza de Orense 3, La Coruña.
14) Plaza General Mola 3, Manresa (Barcelona).
15) Teniente Coronel Yague 2, Badajoz.
16) Arco 8, Salamanca.
17) Tiendas 9 y 11, Orense.
18) Olaguibel 6, Vitoria.
19) Villafranca 8, León.
20) Don Juan de Austria 3, Valencia-2.
21) Rodriguez Arias 6, Bilbáo-8.
22) San Pedro de Mezonzo 3, Santiago (La Coruña).
23) Yanguas y Miranda 17, Pamplona.
24) Moyano 1, Castellón de la Plana.
25) Santa Paula 2, Granada.
26) Lucas 4, Murcia.
27) San Pedro 38, Tarrasa (Barcelona).
28) Conde Jordana 1, Burgos.
29) Moros 37, Gijón (Asturias).
30) Avenida Mártires 20, Ciudad Real.
31) San Agustín 3, Segovia.
32) Avenida Portugal 12, Logroño.
33) Asturias 19, Oviedo.
34) Alcalá del Olmo 15, Gandía (Valencia).
35) Marcelino Sautuola 4, Santander.
36) Peregrina 25 y 27, Pontevedra.
37) José del Toro 10, Cádiz.
38) Arapiles 6, Almería.
39) Avenida Generalísimo 1, Zamora.
40) Pintor Velázques 14, Alicante.
41) Forsa 8, Gerona.
42) Villa Antonia 5, Lérida.
43) Mayor 53, Albacete.
44) Montero Calvo 7, Valladolid.
45) Principe 53, Vigo (Pontevedra).
46) Navarro Ledesma 4, Toledo.
47) Plaza Reyno 2, Alcira (Valencia).
48) Caracuel 15, Jerez (Cádiz).
49) Obispo Aguilar 1, Jaén.
50) Plaza Angel Fernandez Gómez 5, Lugo.
51) Don Juan de Austria 3, Valencia-2.

OTHER STATIONS

RADIOCADENA ESPAÑOLA (REM-CAR)

REM-CAR belongs to the Delegación Nacional de Prensa y Radio del Movimiento.
ADDR: Avenida Generalísimo 142, Madrid-16. **Te:** 215.66.46.
L.P: Dir.Gen: José Luis Surroca Pratdesaba. Sec.Gen: Ernesto Fernández Vázquez.
All EFE-EFJ-stations belong to REM-CAR.

CADENA DE ONDAS POPULARES ESPAÑOLAS (COPE)

ADDR: Alfonso XI 4, Madrid-14.
L.P: Dir.Gen: Valentin Sebastian Pardos. Dir.Tec: Jacinto de Acuna.
All EAK-stations belong to COPE.

CADENA DE EMISORAS SINDICALES (CES)

ADDR: Huertas 73, Edificio "Pueblo", Madrid-14. **Te:** 467.21.62.
L.P: Dir.Gen: M. Pimentel Lopez.
All ECS-stations belong to CES.

Abbreviations

L.V.=La Voz . . . – R.P.=Radio Popular . . . – R.J.=Radio Juventud . . . – AFRTS=US Air Force.

	kHz	Call	kW	Station	Times	FM
1)	836	EFE17	5	L.V. Levante	0630-0100	82.2
2)	917	EAJ2	12	R. España de Madrid	0600-0500	97.2
3)	953	EAJ29	20	R. Intercontinental	0500-2400	95.1
4)		EAJ39	5	R. Miramar	0600-0200	94.8
5)	1025	ECS2	5	R. Badajoz	0700-2230	94.9
6)		EFJ15	5	R.J. Barcelona	0500-0100	90.0
7)	1097	EFE14	20	L.V. Madrid	0630-2330	
8)		EFE23	5	L.V. Guipúzcoa	0600-2300	83.3
9)		EFE58	5	L.V. Andalucia	0700-2300	92.2
10)		EFJ5	2	R.J. Cadiz	0700-2400	95.1
11)		EFJ41	2	R.J. Asturias	0800-2300	88.8
12)	1106	EAJ37	2	R. Linares	0800-2400	94.5
13)	1124	EAJ15	10	R. Reloj	24h	96.9
14)	1133	ECS3	15	R. Gredos	0700-2130	87.6
15)		ECS8	12	L.V. Guadalquivir	0600-0100	99.0
16)		ECS9	5	L.V. Jaén	0700-2300	93.3
17)		ECS13	2	L.V. Ciudad Real	0705-2300	93.0

	kHz	Call	kW	Station	Times	FM
18)		ECS17	2	R. Monforte	0800-2300	88.8
19)		ECS19	2	L.V. Benavente	0600-2300	88.8
20)		EFE6	5	L.V. Extremadura	0700-2300	85.1
21)		EFE22	5	L.V. Principado	0700-2300	89.4
22)		EFE31	5	L.V. Vigo	0700-2400	96.0
23)		EFE33	5	L.V. Mediterráneo	0700-2300	88.8
24)		EFJ19	2	R.J. Murcia	0600-0100	92.1
25)		EFJ23	2	R.J. Albacete	0730-2130	91.8
26)		EFJ25	2	R.J. Almería	0700-2300	88.9
27)		EFJ29	2	R.J. Ponferrada	0800-2300	85.6
28)		EFJ43	5	R.J. Bilbáo	0600-2400	96.6
29)		EFJ46	5	R.J. Zaragoza	0600-2400	94.5
30)		EFJ54	2	R.J. Burgos	0600-2400	93.6
31)		EFJ56	5	R.J. Málaga	0600-0100	92.5
32)	1150	EFE57	5	L.V. Navarra	0645-2200	88.8
33)	1268	EAK1	20	R.P. Madrid	0630-0200	99.5
34)		EAK18	2	R.P. Mallorca	0600-0030	97.5
35)	1358	ECS5	2	L.V. Granada	0655-0100	97.8
36)		EFE4	2	L.V. Palencia	0700-2300	91.8
37)		EFJ11	5	R.J. La Coruña	0700-2400	88.8
38)	1385	ESC11	20	R. Centro	24h	88.2
39)		ECS14	2	L.V. Gerona	0645-2300	94.9
40)		ECS18	2	L.V. Miño	0755-2300	95.1
41)		EFJ45	3	R.J. Palma	0630-2400	88.8
42)		EFJ50	2	R.J. Calahorra	0700-2200	88.8
43)	1394	EAK6	2	R.P. Zaragoza	0600-0200	97.8
44)		EAK17	2	R.P. Jerez	0600-0100	92.2
45)		EAK20	2	R.P. Córdoba	0630-2400	87.6
46)		EAK21	2	R.P. Badajoz	0800-2300	89.1
47)		EAK26	2	R.P. Zamora	0650-2330	94.9
48)		EAK31	2	R.P. Alicante	0600-2300	95.4
49)		EAK33	2	R.P. Vigo	0600-2400	87.8
50)		EAK44	2	R.P. San Sebastián	0655-2300	88.5
51)		EAK46	2	R.P. Albacete	0630-2300	95.4
52)		EAK48	2	R.P. Astorga	0630-2300	87.6
53)		EAK53	2	R.P. Réus	0600-2300	89.7
54)		EAK68	2	R.P. Santander	0600-2330	88.4
55)		EAK69	2	R.P. Almería	0700-2300	97.2
56)	1412	EAJ30	2	R. Onteniente	0800-2300	97.2
57)	1430	EAK5	5	R.P. Valencia	0600-0200	89.7
58)		EAK9	2	R.P. Valladolid	0700-2330	88.5
59)		EAK11	5	R.P. Málaga	0600-2400	97.0
60)		EAK14	2	R.P. Huelva	0755-2300	88.6
61)		EAK15	2	R.P. Lérida	0655-2300	96.0
62)		EAK23	2	R.P. Puertollano	0630-2300	97.5
63)		EAK25	2	R.P. León	0700-2330	93.3
64)		EAK29	2	R.P. Lorca	0600-2300	97.5
65)		EAK40	2	R.P. Jaén	0630-2400	88.8
66)		EAK57	2	R.P. Cáceres	0630-2300	88.6
67)		EAK58	2	R.P. Lugo	0630-0200	90.0
68)		EAK67	2	R.P. Menorca	0600-2300	90.0
69)		EAK82	2	R.P. Figueras	0655-2300	89.4
70)	1475	EAJ20	2	R. Sabadell	0655-2300	89.1
71)		EAJ24	2	R. Córdoba	0700-2400	89.1
72)		EAJ53	2	R. Elche	0645-2315	94.8
73)	1484	ECS1	2	R. Teruel	0800-2400	88.5
74)		EFE1	2	L.V. Valladolid	0700-2330	94.5
75)	1502	EAK2	2	R.P. Sevilla	0600-0200	99.6
76)		EAK3	2	R.P. Burgos	0630-2300	95.4
77)		EAK4	2	R.P. Pamplona	0655-2300	87.9
78)		EAK12	2	R.P. Murcia	0700-0200	89.7
79)		EAK13	2	R.P. Bilbáo	0600-0200	97.8
80)		EAK19	2	R.P. Salamanca	0630-2300	90.0
81)		EAK22	2	R.P. Ciudad Real	0650-2230	93.6
82)		EAK24	2	R.P. Ibiza	0700-2200	89.1
83)		EAK39	2	R.P. Granada	0655-2400	88.2
84)		EAK43	2	R.P. El Ferrol	0630-2300	95.0
85)		EAK59	2	R.P. Orense	0655-2300	92.4
86)		EAK78	2	R.P. Villarreal	0700-0100	92.2
87)		EAK91	2	R.P. Asturias	0900-2300	89.1
88)	1570	ECS6	4	R. Tortosa	0700-2300	87.9
89)		ECS7	2	L.V. Lérida	0700-2300	87.9
90)		ECS10	2	L.V. Mancha	0700-2300	88.5
91)		ECS12	2	R. Atalaya	0700-2300	
92)		ECS15	4	R. Costa del Sol	0800-0100	88.0
93)		EFE5	2	L.V. León	0700-2230	87.9
94)		EFE8	5	L.V. Alicante	0630-2300	94.5
95)		EFE10	2	L.V. Alava	0700-2300	92.5
96)		EFE19	2	L.V. Castellón	0630-2230	88.9
97)		EFE25	5	L.V. Cantabria	0700-2300	96.9
98)		EFJ2	2	R.J. Soria	0900-2200	89.7
99)		EFJ38	2	R.J. Bejar	0900-2000	99.9
100)		EFJ51	5	R.J. Huelva	0700-2300	89.4

FM only

	Call	Station	MHz	Times
101)	EAK66	R.P. Loyola	99.8	0700-2130
102)	ECS20	R. Torrelavega	89.4	0700-2200
103)	ECS21	R. Tudela	88.2	0800-2300
104)	ECS22	R. Costa Dorada	95.0	0800-1930
105)	ECS23	R. Ronda	99.3	0900-2000
106)	ECS25	R. Fraga	95.0	0800-2200
107)	ECS26	R. Utiel	87.9	1200-1400
108)	ECS27	R. Coral	96.9	1100-2100
109)	ECS28	R. Caspe	89.1	0900-1830
110)	EFJ1	R.J. España	89.7	0700-2300
111)	EFJ4	R.J. Igualada	89.4	0600-2030
112)	EFJ6	R.J. Almansa	88.8	0800-2100
113)	EFJ7	R.J. Plasencia	88.8	0930-2000
114)	EFJ21	R.J. Barbastro	90.0	1000-2230
115)	EFJ26	R.J. Cartagena	89.0	0700-2300
116)	EFJ37	R.J. Talavera	89.4	0730-2000
117)	EFJ42	R.J. Eibar	96.9	0800-2130
118)	EFJ52	R.J. Aranda	90.0	0900-2030
119)	EFJ53	R.J. Miranda	89.7	0900-2100
120)	EFJ61	R.J. Morón	87.9	0800-2200
121)		R. Olot	88.5	0830-2300
		AFRTS, Zaragoza	89.7	0500-2400
		AFRTS, Rota	96.9	0500-2300
		AFRTS, Morón	96.9	0500-2400
		AFRTS, Madrid/Torrejón	100.2	24h

Addresses

1) Avenida de El Cid 154, Valencia-14.
2) Manuel Silvela 9, Madrid-10.
3) Modesto Lafuente 42, Madrid-3.
4) Plaza de Cataluña 9, Barcelona-2.
5) Cardenal Carvajal 2, Badajoz.
6) Via Augusta 19, Barcelona-6.
7) Ayala 15, Madrid-1.
8) Victor Pradera 12, San Sebastián.
9) Buen Pastor 4, Córdoba.
10) Avenida Lopez Pinto 5, Cádiz.
11) Dorado 11, Sama de Langreo (Asturias).
12) Pérez Caldós 35, Linares (Jaén).
13) Ramblas 126, Barcelona-2.
14) Plaza Santa Ana 2, Avila.
15) Aponte 1, Sevilla-2.
16) Generalísimo 30, Jaén.
17) Avenida de los Martires 28, Ciudad Real.
18) Plaza de España 4, Monforte de Lemos (Lugo).
19) Avenida Portugal 35, Benavente (Zamora).
20) Primo de Rivera 1, Cáceres.
21) Asturias 9, Oviedo.
22) Avenida García Barbón 3, Vigo (Pontevedra).
23) Hermanos Landa 21, Tarragona.
24) Alféreces Provinciales 8, Murcia.
25) Tesifonte Gallego 6, Albacete.
26) San Fernando 4, Almería.
27) Ave María 9, Ponferrada (León).
28) Banco España 3, Bilbáo-5.
29) Avenida Calvo Sotelo 7, Zaragoza.
30) Caja de Ahorros Municipal 17, Burgos.
31) Alameda Colón 32, Málaga.
32) Navarro Villoslada 17, Pamplona.
33) Juan Bravo 49, Madrid-6.
34) Seminario 4, Palma de Mallorca.
35) Casa Sindical Avenida Calvo Sotelo, Granada.
36) Bacerro de Bengoa 9, Palencia.
37) Paseo Méndez Nuñez s/n, La Coruña.
38) Huertas 73, Madrid-14.
39) Avenida Jaime I 30, Gerona.
40) Parque San Lázaro 14, Orense.
41) San Bartolomé 9, Palma de Mallorca.
42) Bebricio 40, Calahorra (Logroño).
43) Plaza de la Seo 6, Zaragoza.
44) Ramón de Cala 2, Jerez (Cádiz).
45) Plaza Cardenal Toledo 2, Córdoba.
46) Menacho 16, Badajoz.
47) Avenida Generalísimo 13, Zamora.
48) Aureliano Ibarra 9, Alicante.
49) Principe 57, Vigo (Pontevedra).
50) Garibay 19, San Sebastián.
51) Mayor 18, Albacete.

52) Plaza Obispo Don Marcelo s/n, Astorga (León).
53) Arrabal de San Pedro 3, Réus (Tarragona).
54) Rualasal 23, Santander.
55) Alcalde Muños 10, Almeria.
56) Plaza José Antonio 26, Onteniente (Valencia).
57) Pasaje Dr. Serra 2, Valencia-4.
58) Claudio Moyano 4, Valladolid.
59) Cruz de Humilladero s/n, Málaga.
60) Puerto 24, Huelva.
61) Academia 17, Lérida.
62) Generalísimo 10, Puertollano (Ciudad Real).
63) Lópe de Vega 1, León.
64) Calle Martínez 63, Lorca (Murcia).
65) Obispo González 2, Jaén.
66) Avenida España 15, Cáceres.
67) Reina s/n, Lugo.
68) Obispo Vila 2, Ciudadela (Menorca).
69) San Lázaro 21, Figueras (Gerona).
70) Calle Convento 22 y 24, Sabadell (Barcelona).
71) Alfonso XIII 12, Córdoba.
72) Calle Doctor Caro 45, Elche (Alicante).
73) General Mola 9, Teruel.
74) Augustias 1, Valladolid.
75) Virgenes 24, Sevilla-4.
76) Avenida del Cid 8, Burgos.
77) Amaya 2-B, Pamplona.
78) Arco Santo Domingo, Murcia.
79) Henáo 5, Bilbáo-9.
80) Plaza Mayor 35, Salamanca.
81) Pasaje de San Isidro s/n, Ciudad Real.
82) Apartado 184, Ibiza.
83) Gran Vía 26, Granada.
84) Sánchez Barcaiztegui 3, El Ferrol (La Coruña).
85) Bedoya 1, Orense.
86) Iglesia 15, Castellón.
87) Prolongación Generalísimo Franco 71, Avilés (Asturias).
88) Argentina 24, Tortosa (Tarragona).
89) Avenida Cataluña 17, Tárrega (Lérida).
90) R. Ledesma 8, Sucuéllamos (Ciudad Real).
91) Cervantes 11, Cabra (Córdoba).
92) Avenida Ricardo Soriano s/n, Marbella (Málaga).
93) Ordoño II 28, León.
94) Angel Lozano 18, Alicante.
95) Calvo Sotelo 24, Vitoria.
96) Avenida Cernuda y Velasco 29, Castellón.
97) Lealtad 14, Santander.
98) Cortes 6, Soria.
99) 28 de Septiembre 24, Béjar (Salamanca).
100) Miguel Redondo 48, Huelva.
101) Loyola (Guipúzcoa).
102) Po José M. Pereda 41, Torrelavega (Santander).
103) Eza 5, Tudela (Navarra).
104) Avenida Generalísimo 105, Ulldecona (Tarragona).
105) Savilla 110, Ronda (Málaga).
106) Po Barrón 54, Fraga (Huesca).
107) Alamos 4, Utiel (Valencia).
108) Mártires 11, Crevillente (Alicante).
109) Plaza de España 1, Caspe (Zaragoza).
110) Diego ded León 47, Madrid-6.
111) García Fossas 2, Igualada (Barcelona).
112) Virgen de Belén 5, Almansa (Albacete).
113) Alfonso VIII 19, Plasencia (Cáceres).
114) Argensolo 26, Barbastro (Huesca).
115) Po Alfonso XIII s/n, Cartagena (Murcia).
116) Ronda del Canillo 42, Talavera de la Reina (Toledo).
117) Bidebarrieta 10, Eibar (Guipúzcoa).
118) San Francisco 5, Aranda de Duero (Burgos).
119) Parque Calvo Sotelo 4, Miranda de Ebro (Burgos).
120) Utrera 4, Morón de la Frontera (Sevilla).
121) Plaza del Carmen 2, Olot (Gerona).

Did you miss last year's WRTH?

Don't miss next year's . . . Place an order with your newsagent today!

SWEDEN

L.T: GMT+1h – **Pr.L:** Swedish – **E.C:** a/c 50 (voltage generally 127/220 or 220/380V) (yes).

TELEVERKET (The Swedish Telecommunications Administration) has the responsibility for the distribution of the prgrs produced by Sveriges Radio and has also charge of the collection of fees.
ADDR: Mårbackgatan 11, S-123 86 Farsta. **Te:** (08)7131000. **Cable:** Gentel, Stockholm.
L.P: Dir.Gen: B. Bjurel. Head of Radio Dept: Carl-Gösta Åsdal. Head of Broadc.Div: Stig Rosenlund.

SVERIGES RADIO (Swedish Broadcasting Corporation) (Non-comm, semigov. broadc. corpo.)
ADDR: Radiohuset, Oxenstiernsgatan 20, Stockholm. Postal Addr: Stockholm S-10510. **Te:** 670865 (local 631000). **Cable:** Broadcast.
L.P: Chmn. Board of Governors: P. Eckerberg. Dir.Gen: O. Nordenskiöld. Dep.Dir.Gen: J.O. Modig. Dir. Central Adm: O. Hansson. Dir. Finance: G. Waldau. Dir. Staff: N. Ragnå. Dir.Eng: A. Rohdin. Dir.Prgr(Radio): K.E. Lundevall. Dir.Prgr(TV1): H. Unsgaard. Dir.Prgr(TV2): O. Wallqvist. Dir.Reg.Prgrs: S. Wahlström. Prgr.Serv. Radio/TV: L.E. Kjellgren. Educ.Prgr: R. Lundgren. Central News Dept: G. Engström. News Prgr.(TV1): S. Nilsson. News Prgr.(TV2): B. Öste. Legal Adviser: G. Hansson. Int.Rel: G. Dahlin, L.G. Warne. Press and Information: H. Söderström. Man.Dir. Swedish Local Radio: N.P. Lindskog.
STATIONS: Long- and Mediumwaves: *) carrying special prgrs for listeners in Europe 2200-2400.

Station	Prgr.	kHz	kW	Station	Prgr.	kHz	kW
Falun	1	1223	10	Motala	1	191	300
Göteborg	1	980	150	Stockholm	1	773	150
Hörby*	1	1178	100	Sundsvall	1	593	10
Luleå	1	1822	0	Östersund	1	719	150

Shortwave: see Home Service.

FM

Station	I	II	III	kW
Arvidsjaur	89.4	94.2	97.1	60
Bollnäs	88.4	91.8	96.0	60
Borlänge	89.4	93.0	97.7	60
Borås	88.5	94.6	97.9	10
Bäckefors	92.7	96.8	99.1	60
Emmaboda	93.0	96.7	99.75	60
Finnveden	90.15	94.2	99.9	3
Gällivare	88.3	94.9	98.5	60
Gävle	88.1	97.4	99.8	60
Göteborg	89.3	96.3	99.4	60
Halmstad	87.7	91.2	95.4	60
Helsingborg	89.8	95.7	98.65	3
Hudiksvall/Forsa	87.6	90.2	93.8	1
Hörby	88.8	92.4	97.0	60
Jönköping	91.0	93.7	97.1	1
Kalix	91.3	93.6	97.9	60
Karlshamn	90.3	93.4	98.3	3
Karlskrona	89.1	95.0	97.7	10
Karlstad	90.5	94.2	96.5	3
Kiruna	89.1	92.7	96.4	60
Kisa	90.5	93.2	96.9	3
Lycksele	92.9	95.4	98.7	60
Malmö	87.9	93.3	98.0	3
Mora	92.2	96.7	98.95	10
Motala	91.1	93.8	98.2	3
Norrköping	90.0	93.5	98.7	60
Nässjö	89.6	92.1	99.0	60
Pajala	87.9	93.0	95.9	60
Skellefteå	93.8	96.3	99.9	10
Skövde	88.9	95.1	97.5	60
Sollefteå	88.2	93.5	98.1	60
Stockholm	92.4	96.2	99.3	60
Storuman	87.6	91.2	99.0	60
Sundsvall	92.7	96.9	99.2	60
Sunne	90.9	94.5	98.45	60
Sveg	90.6	94.9	97.9	60
Trollhättan	91.9	95.8	99.8	3
Tåsjö	97.5	94.7	89.15	60/60/25
Uddevalla	89.9	93.1	97.2	3

Station	I	II	III	kW
Uppsala	90.3	93.3	96.6	3
Varberg	90.4	93.6	98.8	10
Visby	87.6	94.1	97.2	60
Vislanda	88.0	90.6	94.7	10
Vännäs	88.5	92.1	95.8	60
Västervik	88.3	91.8	96.0	60
Västerås	90.7	95.7	98.0	60
Älvsbyn	90.6	94.5	99.4	60
Örebro	87.9	91.5	99.55	60
Örnsköldsvik	90.8	94.4	97.8	10
Östersund	87.9	91.5	94.0	60
Östhammar	89.1	92.8	95.5	3
Ånge	93.2	95.6	99.6	10

+121 smaller trs.

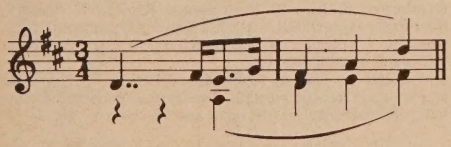
HOME SERVICE

FIRST PRGR: Netw. of mainly spoken words: 0450(Sat 0530, Sun 0625)-2130(Sat 2105, Sun 2110). Also in the morning(Mon-Fri) Serious music. **N:** Mon-Fri 0500; W 0530, 0600, 0630; D 0700, 1130, 1400; Sun 1600; D 1700, 2000, 2100. **Newsreel:** Mon-Fri 0505; W 0635; D 1135, 1705; Mon-Fri 2105. **Wrp** (incl. forecast for Swedish waters): W 0535; D 0705, 1200, 2050. Excl. Swedish waters: W 0705, D 1725. Forecast for Swedish waters only: D 1545. **Shortwaves:** 0500(Sat/Sun 0630)-0800 on 6065(beam 210°)/9605(195°)/15390kHz(180°). Exp. with single-sideband 0500(Sat, Sun 0630)-0800, 1400-1600 on 17775kHz, 1600-1800 on 15390kHz, 1800-2130 on 11770kHz. **Rlg. prgrs:** Morning Sces: Mon-Fri 0450; W 0550, 0745; Sat 1640. Evening prayer: D 2045; Sun 1000, 1615. **Serious music:** Mon-Fri 0815-0930. **Time Signal:** D 1158-1200.

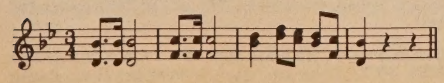
SECOND PRGR: Mon-Fri: 0500 Finnish, 0520 Education, 0530 Serious music, 0650 Prerevue, 0700 Finnish, 0730 Prgr. for immigrants, 0750(approx) Education(only during school terms), 1045 Light music, 1100 News, 1105 Light music, 1125 Wrp. excl. Swedish waters, 1130 Serious music, 1230-1240 Stock report, 1530 Serious music, 1700 Finnish, 1725(central and northern regions) N. in Finnish, 1730 Prgr. for immigrants, 1800 Education, 1830 Light music, 1900-2300 Serious music. **Sat:** 0600 Light music, 0650 Prerevue, 0700 Education, 0800 Serious music, 1000 Education, 1020 Turkish prgr, 1045 Light music, 1100 N, 1105 Education, 1300 Finnish, 1400 Serious music, 1500 Education, 1535 Light music, 1700-2300 Serious music. **Sun:** 0600 Light music, 0750 Prerevue, 0800 Serious music, 1500 Education, 1600 Light music, 1700 Education, 1900-2300 Serious music.

THIRD PRGR: Light music and entertainment 24h. **N:** Mon-Fri 0400, 0430; D 0800, 0900, 1000; Sun 1100. D 1200, 1300, 1500; W 1545; D 1800, 1900, 2200. **Newsreel:** W 1550. **Shortwaves:** 0330-0500(Sat/Sun 0630) on 6065(beam 210°)/6100(110°)/9605kHz(195°).

ANN: Nat. prgr. "Sveriges Radio . . ." and the service f.inst. "Sveriges Radio programm ett" – **INT-SIG:** 1st Prgr: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" or, more frequently, birds changing each week. Home Service 1st Prgr:



Home Service 2nd Prgr:



ARF: (Annual receiver fee) Radio only: Sw.kr. 50,-. TV(incl. Radio); Sw.kr. 220,-(Sw.kr. 320,- incl. colour TV).

Vi distribuerar
WORLD RADIO TV HANDBOOK
i Sverige och Norge

Vi har dessutom ett stort urval av litteratur för DX-are, radioamatörer, tekniker, m.fl.:

THE RADIOAMATEUR'S HANDBOOK

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THE ARRL ANTENNA BOOK och andra antennböcker

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VHF HANDBOOK FOR RADIO AMATEURS

○

BETTER SHORTWAVE RECEPTION (ny upplaga)

○

10 LANGUAGE DX VOCABULARY (inklusive svenska)

○

THE SOUTH AMERICAN HANDBOOK

○

Ekvivalenttabeller och bygghandböcker

○

PRO ELECTRON Reference Books

○

Testrapporter, tidningar, osv. över olika HiFi-apparater

○

TESTGRAMMOFONSKIVOR för stereoanläggningar, högtalarebygge, osv.

○

Fråga efter böckerna i bokhandeln eller skriv till oss och begär broschyrer, prislistor, osv. Ni får dem GRATIS!

RADEX
BOX 8013
250 08 HELSINGBORG

FOREIGN SERVICE

ADDR: Radio Sweden, S-105 10 Stockholm.
L.P: Dir: B. Gustafsson. Prgr.Sce: L. Hansson and Gunilla Arnö. Transcription Sce: B. Järrel. DX-Editor: Arne Skoog.
STATIONS: Hörby (G.C: 13.44E/55.49N): 2×350kW trs. Karlsborg (G.C: 14.29E/58.29N): 1×350kW tr.
*) Hörby SSB-tr-30kW.

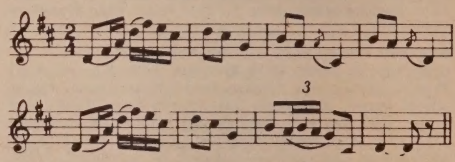
kHz	kHz	kHz	kHz	kHz	kHz
6035	7145	9695	11770	15305	*17775
6045	9605	9720	*11770	15390	17780
6065	9630	9745	11780	*15390	*17835
6100	9635	9750	11845	15410	21690
6120	9660	11705	11920	17770	
6130	9665	11735	11950	*17770	

Areas: I=Europe; II=Middle East; III=Ea. Asia; IV=Africa; V=So. Asia; VI=Eastern No. America; VII=Western No. America; VIII=Latin America; IX=So. We.Europe/Latin America; X=No. Asia; XI=Australia/NZ. nd=omnidirectional.
Behind freqs and between brackets: Antenna direction in degrees clockwise from true north.

Schedule 7/11/76-6/3/77

English	Area	kHz/Beam
1100-1130	I/XI/IV	9630(260)/15305**(240)/21690(180)(2).
1230-1300	III/VI/IV	9745(60)/15305(295)/21690(180)(2)
1400-1430	V/VI	9750(110)/11920(90)/15305(310)
1600-1630	I/II	6065(260)/9665(100)/11735(115)
1830-1900	I/IV	6065(260)/9720(180)/11780(165)
2100-2130	I/II/IV	6065(260)/9605(145)/11845(180)
2300-2330	I/IV/VII	1178(nd)/6045(310)/6120(295), 9695(310)
0030-0100	VII	6045(310)
0230-0300	VI/VII	6045/9695(310)
French		
0930-1000	I/II	9630(210)/21690(145)(2)
1130-1200	I/IV	11950(220)
1330-1400	V/VI/VIII	9750(90)/15305(295)/17770(280)(3)
1500-1530	I/II/IV	9660(210)/11735(145)/15390(195)
1800-1830	I/II/IV	6065(210)/11950(145)/11780(195)
2030-2100	I/II/IV	6065(210)/9605(145)/11845(195)
0230-0300	VI	6035(295)
German		
1030-1100	I	6065(165)/9630(165)(2)
1730-1800	I	6065(165)/9660(180)
2000-2030	I/IV	6065(165)/9605(165)/11845(165)
2230-2300	I	1178(nd)/6065(165)/9605(165)
Russian		
0900-0930	I/X	9630(75)/11770(45)(2)
1530-1600	I/X	6045(70)/6065(105)/9665(100)
1630-1700	I/X	6045(70)/6065(60)/9665(100)
1930-2000	I	6065(105)/9605(70)
2200-2230	I	1178(nd)/6065(100)
0300-0330	I/X	6065(70)/6130(75)
Portuguese		
1730-1800	IV	11780(165)
1900-1930	I	6065(255)
2200-2230	IX	9605(240)/11705(240)
0030-0100	VIII	9695(240)/11705(240)
0200-0230	VIII	9695(240)/11705(240)
Spanish		
1930-2000	I	11950(220)
2130-2200	I/IV	9635(220)
2230-2300	I/IV	9635(220)
0000-0030	VIII	6035(295)/9695(260)/11705(260)
0130-0200	VIII	6035(295)/9695(260)/11705(260)
0300-0330	VIII	6035(295)
Swedish		
0330-0500a,c	I	6065(210)/6100(100)/9605(195)
0500-0800b,d	I/IV	6065(210)/9695(*195)/15390(180)(1)
1000-1030	I/II	9630(210)/21690(145)(2)
1130-1200b	I	9630(210)/11735**(240)(2)
1200-1230	III/IV	15410(90)/17780(180)/21690(180)(2)
1300-1330	III/VIII	9745(60)/11735(55)/17770(280)(3)
1430-1500	V/VI	9750(90)/11920(100)/15305(295)
1700-1730	I/II	6065(210)/11780(180)/11950(145)
1900-1930	I/IV	7145(105)/9720(195)
2130-2200	I	6065(210)/9605(215)
2330-2400	I/VIII	1178(nd)/6120(295)/9695(260)11705(260)
0100-0130	VI/VIII	6045(310)/9695(260)/11705(260)

*) 240° from 0630 – **) not Mon; (1) SSB 17775kHz(80); (2) SSB 17770kHz(110); (3) SSB 17835kHz(110).
a) relay Home Sce(prgr. III). b) prgr. I. c) Sun and Swedish Holidays till 0630. d) Sun and Swedish Holidays from 0630.
DX-PRGR: Every Tues during daily 1/2h broadcasts in English, French, German, Spanish and Russian; Sat in Portuguese.
ANN: E: "This is R. Sweden". G: "Hier ist R. Schweden". Fr: "Ici R. Suéde". Sp. and P: "Aqui R. Suécia, Estocolmo". Sw: "Utlandsprogrammet, Sveriges Radio". Ru: "Govorit Stokgolm" – **INT-SIG:** The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" (see Home Sce. 1st Prgr). Opening Music from Hugo Alfven's Midsummer vigil:



V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports. Prgr. schedules by writing to R. Sweden: S-10510 Stockholm – **PUB:** Four times a year. "Radio Sweden" in English, German, French, Spanish, Portuguese, Russian, Swedish.

SVERIGES LOKALRADIO AB (Swedish Local Radio Corporation) (Non-Comm. subsidiary company to Sveriges Radio).
ADDR: Klara Södra Kyrkogata 1, or Box 556, S-101 27 Stockholm. **Te:** 22 98 00. **Cable:** localbroadcast.
L.P: Chmn. Board of Governors: B. Löfberg. Man.Dir: N.P. Lindskog. Dep.Man.Dir. and Prgr.Man: M. Boethius. Personnel: L. Frithiof. Adm. and Finance: T. Roxström. Eng: P.O. Wall.
STATIONS: FM: See Sveriges Radio.
Local Service: Broadcast on Sveriges Radios Home Sce. Third Prgr: Mon-Fri 0600-0745, 1200-1230, 1700-1800; Sat 0700-0800, 1700-1800; Sun 0800-0900, 1700-1800, 2015-2030.
1st Stage: Stations to be on the air by February 1977: R. Norrbotten (Luleå), R. Västerbotten (Umeå), R. Västernorrland (Sundsvall), R. Jämtland (Östersund), R. Gävleborg (Gävle), R. Kopparberg (Falun) and R. Värmland (Karlstad).
2nd Stage (to operate from May 1977): Sts in Uppsala, Stockholm, Örebro, Vasterås, Eskilstuna, Norrköping and Visby. Further local sts in August and November 1977.

SWITZERLAND

L.T: GMT+1h – **Pr.L:** German, Swiss German dialects, French, Italian, Romanche – **EC:** a/c 220/380V (generally), (yes).

DIRECTION GENERALE DE L'ENTREPRISE DES PTT, Viktoriastr. 21, CH-3000 Berne 33. **Cable:** Gentel.
L.P: Pres: Dr. M. Redli (PTT responsible for the technical aspects of transmission).

SWISS BROADCASTING CORPORATION (+SBC)

(A non-profit-making Comp. responsible for the radio & tv prgr. sce's).

ADDR: Schweizerische Radio-und Fernsehgesellschaft (SRG); Societe suisse de radiodiffusion et télévision (SSR), Società Svizzera di Radiotelevisione (SSR); Giacomettistrasse 3, 3000 Berne 15. **Cable:** Radif. **Te:** (031)439111. **Telex:** 32116.

L.P: Pres. of the Board of Adm: Dr. Ettore Tenchio. Dir.Gen: Dr. Stelio Molo. Dir. Finance and Dep.Dir.Gen: Domenic Carl. Dir.Prgr.Sces. (Radio and TV): Edouard Haas. Dir. of Personnel: Dr. Marcel Küttel. Technic Radio-TV: H.R. Züst. Prgr. Dept/Foreign Rel. Radio: Dr. Gian-Carlo Pellandini. Prgr.Dept.TV: Frank R. Tappolet. Legal Dept: Edgar Roy. Information and Documentation: Dr. Markus T. Drack.

Schweizerischer Kurzwellendienst, Service suisse des ondes courtes. SBC's European and Overseas Services, Giacomettistrasse 1, 3000 Berne 15. **Te:** (031)446644.

Telephonrundspruch, Telediffusion (Swiss Wire Broadc. Net) Giacomettistrasse 1, 3000 Berne 15. **Te:** (031)441444.

L.P: Dir: SBC's European and Overseas Service and Telediff: J. Curchod. Head Telediff: B. Bruni.

Swiss Broadc. Corpo. (SBC) comprises three reg. radio and tv societies, namely:

Programme services in German:

"Radio und Fernsehgesellschaft der deutschen und der raetoromanischen Schweiz" (6 reg. societies, 3 radio studios and 1 TV studio).

L.P: Radio & TV Dir: Dr. Gerd H. Padel, Hagenholzstr. 81, 8052 Zürich. **Te:** 01/503411. Radio Prgr.Dir: Dr. Otmar Hersche, Bruderholzalle 172, 4024 Bâle. **Te:** 061/346220. TV Prgr.Dir: Dr. Guido Frei, Fernsehstrasse 1-4, 8052 Zürich. **Te:** 01/500500. **Radio Studios:** R. Berne, Schwarztorstrasse 21, 3014 Berne. Mgr: Urs Frauchiger. R. Bâle, Novarastrasse 2, 4024 Bâle. Mgr: Peter Wyss; R. Zürich, Brunnenhofstrasse 22, 8042 Zürich. Mgr: Josef Renggli.

Programme services in French:

"Societé de Radiodiffusion et de Télévision de la Suisse Romande" (2 reg. societies, 2 radio studios, 1 TV studio).

L.P: Radio-TV Dir: René Schenker, 6 ave de la gare, 1001 Lausanne. **Te:** (021)205911. Radio Prgr.Dir: Bernard Nicod, Maison de la Radio, 1010 Lausanne. **Te:** (021) 217111. TV Prgr.Dir: Alexandre Burger, 20 quai Ernest Ansermet, 1211 Genève 8. **Te:** (022)293333. **Radio Studios:** R. Genève, 66 Blvd. Carl-Vogt, 1205 Genève 8; R. Lausanne, Maison de la Radio, 1010 Lausanne.

Programme services in Italian:

Società cooperativa per la radiotelevisione nella Svizzera Italiana (CORSI).

L.P: Reg. Radio-TV Dir: Franco Marazzi. Radio-TV Prgr.Dir: Cherubino Darani. **Radio Studio:** R. Lugano, 6903 Lugano-Besso. **Te:** (091)33021. **TV studio:** 6911 Comano. **Te:** (091)76111.

STATIONS

German Language Network

Mediumwaves	kHz	Prgr	kW
Beromünster	529	1	250/500
Beromünster	1562	1	300
Sarnen (Basel)	1562	1	0.5
FM	**I**	**II**	**kW**
Gebidem	93.9	89.4	1
Gotschnagrat	89.4	97.8	1.2
Lenzerheide	94.5	88.2	1.5
Niederhorn	97.2	93.6	8
Rigi	90.9	96.6	30
Ruschein	97.5	96.4	1.2
St. Chrischona	90.6	99.0	10
Säntis	99.9	95.4	40
Uetliberg	94.6	97.5	1.8

+104 low power st's not mentioned.

French Language Network

Mediumwaves: Sottens 764kHz 500kW – Saviése 1367kHz 0.5kW.

FM	I	II	kW
Bantiger	95.1	99.3	12
La Chaux-de-Fonds	96.3	87.6	1.5
La Dôle	94.8	91.2	45
Les Ordons	94.2	99.6	1.5
Premier	96.2	98.1	1
Ravoire	99.3	95.7	1.2

+36 low power st's not mentioned.

Italian Language Network

Mediumwaves: Monte Ceneri 557kHz 50/100kW.

FM	I	II	kW
Cardada	97.8	91.3	0.6
Grono	99.6	94.8	1
M. Ceneri-Passo	96.9	89.4	0.75
M. Morello	96.3	88.8	0.75
M. San Salvatore	98.7	93.0	8

+several low power st's not mentioned.

HOME SERVICES

GERMAN: 1st Prgr: 0500(Sun 0600)-2300(Fri/Sat 2400).

N, Wrp, Current N. items, Comm: 0500(W), 0530(W), 0600, 0630(W), 0700, 0800(W), 0900(Sun), 1000(W), 1130(Sun), 1300(W), 1500, 1700, 1800, 1900, 2100, 2200 – **"Samtags Rundschau"** (domestic affairs): Sat 1005 – **Espresso** (incl. tips for motorists): Mon-Fri 0505.

Second Prgr: 0500(Sun 0600)-2230.

N: 0500(W), 0530(W), 0600*, 0800(Mon-Fri), 1130*, 1300(Mon-Fri), 1700(Mon-Fri), 1900 – *) Sat/Sun only.

Local Broadc. in German: Sat/Sun 1700-1800. **Broadcasts in Romansch:** Sun 1200-1220 for the farmers; (every 3rd Sun 1600 sermon; every two months 1300 children's hour; monthly 2130 literature ("Il Patnal"); Tues 1600 (alternatively children's hour, women's hour, broadc. for elderly people and the sick; Sat 1100-1130 "Nossa emissiun", Mon-Sat 1830-1840 "Novitads".

FRENCH: 1st Prgr: 0500-2300.

N, Wrp, Comm. (Current N-items): 0500, 0600, 0700, 0800, 0900, 1000, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2200, 2255, 2355(Sat) – **Symphony:** Wed 1930.

2nd Prgr: 0600(Sat/Sun 0700)-2200.

N: 0700(Sun), 0800, 1300, 1700(1730 Sun), 1900, 2200.

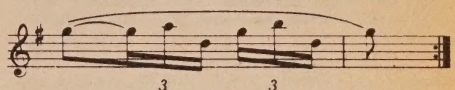
ITALIAN: 1st Prgr: 0500(Sat 0600)-2300.

N, Wrp, Comm, Current N. items: 0530, 0600, 0630, 0700, 0730, 0930, 1130, 1330, 1530, 1730, 1800, 2130, 2230.

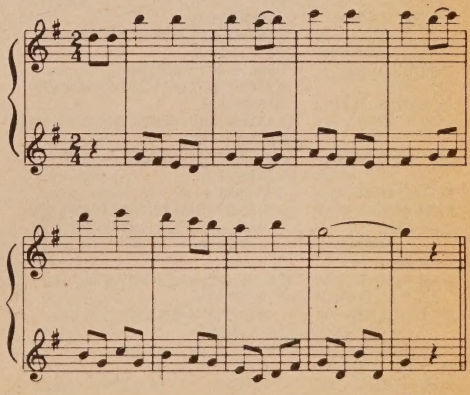
Second Prgr: 1100(Sat 0800, Sun 0915)-2130.

ANN: German: "Hier ist das Schweizer Radio". French: "Radio Suisse Romande". Italian: "Radio della Svizzera Italiana".

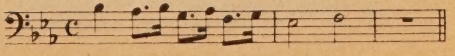
INT-SIG: Schweizer Radio. 1st Prgr: From Rossini's Wilhelm Tell Overture:



Radio Suisse Romande: Melody by Achille Christen (Celesta):



Radio Svizzera Italiana: "Campane della Chiesa di Pazzalino".



V. Any messages from our listeners and viewers are most welcome. Both QSL-card and letter are used – **PUB:** "TV-Radio-Zeitung", "Radio TV – Je vois tout" – **FI:** By licence fee; proceeds divided between the SBC and PTT at the rate of 70:30 per cent – **ALF:** Frcs. 60, for sound broadcasting.

FOREIGN SERVICES

ADDR: SBC's European and Overseas Services, Giacomettistrasse 1, CH 3000 Bern 15.
L.P: Dir: Joel Curchod. Deputy Dir. and Head of Staff and Adm: Brenno Bruni. Head, Inf.Dept: Nicolas D. Lombard. Head, Cultural and Documentary Prgrs: Lance Tschannen. Head, Tec.Dept: Paul Badertscher. Press Officer: W. Fankhauser.
STATIONS: Schwarzenburg (G.C: 07.24E/46.49N): 2×250kW, 2×100kW; Beromünster (G.C: 08.10E/47.12N): 2×250kW, 1×100kW; Lenk (G.C: 07.26E/46.27N): 2×250kW; Sarnen (G.C: 08.15E/46.54N): 1×250kW; Sottens (G.C: 06.44E/39N): 1×500kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3985	6165	9625	11715	11850	15140	17830
5965	9535	9725	11720	11870	15305	21520
6045	9560	9735	11745	11950	15430	21585
6135	9590	9750	11775			

EUROPEAN SERVICE (+worldwide – omnidirectional): 0600-2245 on 3985/6165/9535kHz. **Swiss Country Music:** 0645, 1030, 1300, 1515 1800. **English:** 0700-0730, 1100-1130, 1315-1345, 1530-1600, 2100-2130. **N:** 0702, 1102, 1317, 1532, 2102. **German:** 0600-0610, 0830-0900, 0900-1030(Wed/Sat/Sun), 1130-1140, 1230-1300, 1345-1415, 1600-1630, 1830-1925, 2130-2140, 2145-2245 (Wed/Sat/Sun). **N:** 0600, 0833, 1130, 1233, 1348, 1603, 1830, 2130. **French:** 0630-0640, 0800-0830, 0900-1030(Tues/Fri/Sun), 1200-1215, 1415-1445, 1630-1700, 1925-2000, 2145-2245(Tues/Fri/Sun). **N:** 0630, 0803, 1200, 1418, 1633, 1920. **Italian:** 0615-0625, 0730-0800, 0900-1030(Mon/Thurs/Sun), 1145-1155, 1445-1515, 1700-1730, 1815-1825, 2145-2245(Mon/Thurs/Sun). **N:** 0615, 0732, 1145, 1447, 1702, 1815. **Spanish:** 2030-2100. **N:** 2032. **Portuguese:** 2000-2030. **N:** 2002. **Arabic:** 1030-1100, 1730-1800. **N:** 1732. **Esperanto:** 1220-1230(Mon/Wed/Fri), 2135-2145(Thurs/Sat). **Romansh:** 1220-1230(Tues/Sat).

OVERSEAS SERVICE

Areas: I=So. America; II=No. and Ce. America; III=West coast of No. America; IV=Africa; V=Far East and Australasia; VI=Indian sub-continent, So. Ea. Asia and Far East; VII=Middle East and Africa.
Behind frequencies in brackets: Antenna direction in degrees, clockwise from true North.

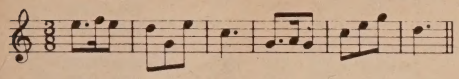
English	Area	kHz/Beam
0145-0215	II	5965(290)/6135(305)/9725(305)/11715(290)
0430-0500	III	6045(320)/9725(320)
0700-0730	V	9560(260)/11775(245)/11950(45)/15305(37)
0900-0930	V	
1100-1130	IV	15140(190)/15430(200)/17830(140)/21520(165)
1315-1345	VI	9735(37)/11745(85)/11870(80)/15430(80)
1315-1345	II	15140(305)
1530-1600	VII	9590(170)/11870(110)/15430(120)
2100-2130	IV	9535(200)/9590(140)/11720(165)/11870(190)
French		
0000-0030	I	6135(260)/9625(240)/9750(230)/11850(230)
0315-0345	II	5965(290)/6135(305)/9725(305)/11715(290)
0600-0630	III	6045(320)/9725(320)
0630-0640	IV	9625(200)/11720(170)/15305(145)
0800-0830	V	9560(260)/11775(245)/11950(45)/15305(37)
1200-1215	IV	15140(190)/15430(200)/17830(190)/21520(165)
1415-1445	VI	9735(37)/11745(85)/11870(80)/15430(80)
1415-1445	II	15140(305)
1630-1700	VII	9590(170)/11870(110)/15430(120)
1925-2000	IV	9535(200)/9590(140)/11720(165)/11870(190)
2145-2245	IV	
German		
2330-2400	I	6135(260)/9625(240)/9750(230)/11850(230)
0245-0315	II	5965(290)/6135(305)/9725(305)/11715(290)
0530-0600	III	6045(320)/9725(320)
0600-0610	IV	9625(200)/11720(170)/15305(145)
0830-0900	V	9560(260)/11775(245)/11950(45)/15305(37)
1130-1140	IV	15140(190)/15430(200)/17830(190)/21520(165)
1345-1415	VI	9735(37)/11745(85)/11870(80)/15430(80)
1345-1415	II	15140(305)
1600-1630	I	21585(230)
1600-1630	VII	9590(170)/11870(110)/15430(120)
1830-1925	IV	9535(200)/9590(140)/11720(165)/11870(190)
2130-2140	IV	
2145-2245	IV	
Italian		
0030-0100	I	6135(260)/9625(240)/9750(230)/11850(230)
0345-0415	II	5965(290)/6135(305)/9725(305)/11715(290)
0500-0530	III	6045(320)/9725(320)
0615-0625	IV	9625(200)/11720(170)/15305(145)
0730-0800	V	9560(260)/11775(245)/11950(45)/15305(37)
1145-1155	IV	15140(190)/15430(200)/17830(190)/21520(165)
1445-1515	VI	9735(37)/11745(85)/11870(80)/15430(80)
1445-1515	II	15140(305)
1700-1730	I	21585(230)
1700-1730	VII	9590(170)/11870(110)/15430(120)
1815-1825	IV	9535(200)/9590(140)/11720(165)/11870(190)
2145-2245	IV	
Spanish		
0100-0130	I	6135(260)/9625(240)/9750(230)/11850(230)
0215-0245	II	5965(290)/6135(305)/9725(305)/11715(290)
2030-2100	IV	9535(200)/9590(140)/11720(165)/11870(190)
Portuguese		
2300-2330	I	6135(260)/9625(240)/9750(230)/11850(230)
1530-1600	I	21585(230)
2000-2030	IV	9535(200)/9590(140)/11720(165)/11870(190)
Arabic		
1030-1100	IV/VII	15140(190)/15430(200)/17830(190)/21520(165)
1730-1800	VII	9590(170)/11870(110)/15430(120)
Esperanto		
1220-1230a	IV	15140(190)/15430(200)/17830(190)/21520(165)
2145-2155b	IV	9535(200)/9590(140)/11720(165)/11870(190)
Romansh		
1220-1230c	IV	15140(190)/15430(200)/17830(190)/21520(165)

a) Mon-Wed/Fri; b) Thurs/Sat; c) Tues/Sat.

Programmes

English/German/French/Italian/Spanish/Portuguese Arabic: All tr's begin with TS and News.
Monday-Friday: News, comment and current affairs as they happen in Switzerland and around the world.
Saturday and Sunday: Cultural and documentary prgrs. (Insight into fundamental aspects of political, economic and cultural life in Switzerland, special music prgrs, request prgrs, etc.)
Romansh: Special prgr. about life in Switzerland's Romansh-speaking region.
Esperanto: Short prgr. on various Swiss and international topics.
DX-Programme: "Swiss Shortwave Merry-Go-Round" (English): 2nd and 4th Saturday.

Sunspot Numbers: Broadcast during the "Swiss Shortwave Merry-Go-Round".
INT-SIG: "Luegid vo Bärg und Tal" – Trad. Swiss-German folk song, played on a music box.



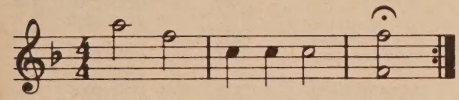
V: Correct reports to SBC's European and Overseas Services, CH-3000 Berne 15, Switzerland, verified by QSL-card or letter. IRC if airmail reply required – **PUB:** Programme schedule twice a year, in spring and autumn; report cards and report sheets (airletters) free upon request.

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

ADDR: Red Cross Broadcasting Service, 17 ave. de la Paix, CH-1211 Geneva.
L.P: Head, Press and Inf: A. Modoux.
In Peace time: ICRC organises occasional test transmissions by courtesy of Swiss Short Wave Service on 7210kHz at the following hrs: 0600-0700, 1130-1230, 1700-1800, 2200-2300 in **French, English, Spanish, Arabic, German;** Prgr. consist of ICRC-news & features: 1977 three days in January, March, May, July, September and November. Also broadcasts beamed transmissions to Asia, Africa, Far and Middle East in the same months.
In times of crisis: ICRC broadcasts programmes containing information regarding prisoners of war and civilians on the same frequency and on others lent by the Swiss authorities, up to 12 hours per day.
ANN: E: "This is the RCBS calling". F: "Ici Service Radio Croix-Rouge". Sp: "Aqui R. Inter-Cruz-Roja". **V.** by QSL-card (for listeners outside Europe ONLY).

UNITED NATIONS BROADCASTING FROM GENEVA

ADDR: R. des Nations Unies, Palais de Nations, Geneva. **Cable:** Omnipress. **Telex:** 28 96 96. **Te:** 346011. Ext. 2324/2566.
L.P: Dir.Inf: C.E. Bourbonnière. Chief Radio and Visual Services: G. Grégoire.
FOREIGN SCE: Russian(Mon-Fri) on 7443kHz (Prangins) during UN General Assembly periods, otherwise Fri only 1830-1840 – UN Prgr. in Arabic(Mon-Fri) during UN General Assembly periods, otherwise Mon only 1830-1845 on 15260kHz (via Radio-France Int.) and 1920-1930 on 7290/9710/11800kHz (via RAI).
ANN: E: "This is United Nations R. in Geneva". F: "Ici la R des Nations Unies à Genève" – **INT-SIG:**



V. by QSL-card or letter.

USSR

L.T: See world time table – **Pr.L:** Russian, Ukrainian, Byelorussian, Uzbeck, Tatar, Kazakh, Azerbaidzhanian, Armenian, Georgian, Lithuanian, Moldavian, German, Estonian, Latvian, Chuvash, Tadzhik – **E.C:** a/c 50 (yes).

MINISTRY OF POSTS AND TELECOMMUNICATIONS OF THE USSR

ADDR: 7, rue Gorky, Moscow. **Cable:** Minsviaz.
L.P: Minister of Posts and Telecommunications: N.V. Talyzin.

STATE COMMITTEE FOR BROADCASTING AND TELEVISION (Gov.)

ADDR: Pyatnitskaja ulitza 25, Moscow. **Cable:** Moskva Radio. **Te:** 2336356.
L.P: Chairman: S.G. Lapin. 1st Vice-Chairman: E.N. Mamedov. Vice-Chairman(Radio): Ju. V. Orlov. Vice-Chairman(External Services): A.P. Evstafiev. Vice-Chairman(Finances): L.S. Maksakov. Vice-Chairman (Technic): H.Z. Yushkjavitchus. Dir. Foreign Relations: L.A. Korolev. Dep. Chief Foreign Relations: F. Kuznetsov.

Abbreviations
1, 2, 3=Moscow 1st, 2nd or 3rd prgr – I, II=Republican 1st or 2nd prgr – F=Foreign sce. prgrs – L=Local prgrs – C=Special city prgr – Unknown=the location of the st. not known – *=Location uncertain – E=European part of the RSFSR – S=Siberia – FE=Far East.

Arm=Armenia, Az=Azerbaijan, Blr=Byelorussia, Est=Estonia, Geo=Georgia, Kaz=Kazakhstan, Kir=Kirghizia, Lat=Latvia, Lit=Lithuania, Mol=Moldavia, Tadz=Tadzhikistan, Tur=Turkmenia, Ukr=Ukraine, Uz=Uzbekistan.

	STATION	kHz	kW	h. of tr. & prgr.	
	Khabarovsk, FE	155	1000	1900-1500	1
				1500-1800	2
	Ufa, E	155	500	0000-0200	1
	Ashkhabad, Tur	155	100	0200-2300	2
	Tashkent, Uz	164	150	0000-1930	I
	Moscow, E	173	500		
	Minsk, Blr	173	1000		
	Kaliningrad, E	173	1000	0200-2200	1
	Lvov, Ukr	173	500	2200-0100	2
	Belebey, E	173	300		
	Syktyvkar, E	173	300		
	Maykop, E	173	1000		
34)	Yakutsk, S	173	500	2100-1700	1,L
	Blagoveshchensk, S	173	50		
	Alma Ata, Kaz	182	250	0000-1930	I,L
	Aktyubinsk, Kaz	182	150	0000-1520	I,L
	Chita, S	182	150	2100-1700	2
35)	Petropavlovsk-Kamchatskiy, FE	182	150	1825-1400	1,L
				1400-1730	2
	Tbilisi, Geo	191	500	0200-2100	I
2)	Barnaul, S	191	50	2300-1830	1,L
				1830-2200	2
	Blagoveshchensk, S	191	1000	2100-1700	1,L
				1700-2000	2
	Moscow, E	200	100	0300-1900	2
	Leningrad, E	200	150	0300-1600	2
	Frunze, Kir	200	150	2300-1530	1
	Irkutsk, S	200	250	2200-1700	1,L
				1700-2000	2
	Kiev, Ukr	209	500	0256-2200	I
	Nukus, Uz	209	50	0000-1930	I,L
	Blagoveshchensk, S	209	30	2100-1600	2
	Skovorodino, S	209	30		
	Ce. Az	218	500	0157-2200	I
2a)	Yeniseysk, S	218	300	2300-1800	I,L
	Khabarovsk, FE	218	100	1928-1500	1,L
3)	Nizhniy Tagil, S	227	50	0100-2200	1,L
	Leningrad, E	236	1000	0200-2200	1
	Arkhangelsk, E	236	150	2200-2330	2
	Kishinev, Mol	236	1000	0200-2200	1
	Kuybyshev, E	236	1200		
	Yerevan, Arm	236	500	0000-2200	1
	Mary, Tur	236	500		
	Irkutsk, S	236	500	2300-1000	1
4)	Magadan, FE	236	1000	1900-1400	1,L
				1400-1800	2
	Taldy Kurgan, Kaz	245	500	2300-1930	1
5)	Vladivostok, FE	245	1000	1900-1500	1,L
				1500-1800	2
6)	Kazan, E	254	150	0200-1540	1,L
	Dushanbé, Tad	254	300	2245-1800	I
				1800-1930	1
	Yerevan, Arm	254	150	0200-2200	I
	Moscow, E	263	2000	0200-2200	1
	Karaganda, Kaz	263	150	0000-1130	I,L
	Chita, S	263	1000	2100-1700	1,L
	Dushanbé, Tad	272	500	0200-1200	1

	STATION	kHz	kW	h. of tr. & prgr.	
7)	Novosibirsk, S	272	150	2300-2100	1,L
	Birobidzhan, FE	272	30	2100-1500	1,L
	Minsk, Blr	281	500	0200-2200	I
	Ashkhabad, Tur	281	150	0100-2100	I
				2100-0030	2
	Ulan Ude, S	281	150	0100-1700	1,L
36)	Yuzhno-Sakhalinsk, FE	281	150	1900-1400	1,L
				1400-1800	2
	Cheboksary, E	529	30	0145-2200	2,L
9)	Orenburg, E	539	30	0100-0000	2,L
	Moscow, E	548	100		
	Leningrad, E	548	100		
	Kaliningrad, E	548	25		
	Minsk, Blr	548	1000		
	Rovno, Ukr	548	150		
	Simferopol, Ukr	548	100		
	Kishinev, Mol	548	1000		
	Kirovobad, Az	548	65	0000-2300	2
	Dushanbé, Tad	548	50	1900-1800	2
	Alma Ata, Kaz	548	1000		
	Yakutsk, S	548	50		
	Svobodnyy, S	548	150		
	Vladivostok, FE	548	150		
	Magadan, FE	548	50		
10)	Volgograd, E	557	250	0200-2200	1,L
				2200-0100	2
11)	Perm, E	566	30	0058-2100	1,L
				2100-0000	2
	Yeniseysk, S	566	50		
	Riga, Lat	575	500	0300-2200	I,F
	Daugavpils, Lat	575	5		
	Nalchik, E	575	25		
	Astrakhan, E	575	50	0100-2100	2
	Osh, Kir	575	50	0000-2300	2
	Novosibirsk, S	575		2200-2100	2
	Sverdlovsk, S	575	100		
	Chita (or Irkutsk), S	575	500	2300-2200	2
	Khabarovsk, FE	575	150	0300-0200	2
	Petropavlovsk-Kamchatskiy, FE	575	50		
	Izhevsk, E	584	150	0200-2100	2,L
	Svobodnyy, S	584	500	0700-0600	F
12)	Ordzhonikidze, E	593	25	0200-2200	2,L
	Yeniseysk, S	593	150	2300-2200	2
	Salekhard, S	602	50		
	Moscow, E	611	100	1930-0200	2
	Unknown, We.Est.	611	100	0300-0200	2
	Vilnius, Lit	611	25		
	Murmansk, E	611	30		
	Petrozavodsk, E	611	100		
	Kiev, Ukr	611	150		
	Baku, Az	611	25		
	Frunze, Kir	611	300	2300-1900	2
	Krasnogorsk, FE	611	100		
13)	Ukhta, Komi ASSR	620	20	0155-2100	2,L
14)	Makhachkala, E	620	50	0200-2200	1,L
	Unknown, FE	620		1900-1800	1
15)	Saratov, E	629	50	0200-0100	2,L
	Khabarovsk, FE	629	100	0800-1430	F
	Simferopol, Ukr	647	150	0300-2200	1,I,L
16)	Omsk, S	647	50	2350-1930	1,L
				1930-2300	2
	Iman, FE	647	1000	0200-0100	F
17)	Murmansk, E	656	150	0200-2200	1,L
				2200-0100	2
	Chernovtsy, Ukr	656	25	0300-2200	2
	Groznyy, E	656	50	0200-2200	2,L
	Verkhoyansk, S	656	50		1,L
	Vilnius, Lit	665	100	0200-2200	I
				2200-2300	F
	Maykop, E	665	30	0100-2200	2,L
	Tashkent, Uz	665	30	2355-1930	II
	Dudinka, S	665	50	2300-1800	1,L
	Komsomolsk, FE	665	100	2000-1700	1,L
	Uzhgorod, Ukr	674	50	0256-2200	I,L
	Volochisk, Ukr	674	50	0256-1600	I,L
	Mary (or Ashkhabad), Tur	674	150	2300-0200	2
				0200-0900	II,1
				0900-1300	2
				1300-1800	II,1

	STATION	kHz	kW	h. of tr. & prgr.	
17)	Tur			1800-2200	2
	Kustanay, Kaz	683	300	0000-1930	I,L
	Abakan, S	683	30	2300-1800	I,L
18)	Anadyr, FE	690	50	1800-1200	1,L
				1200-1500	2
				1600-1800	2
19)	Ufa, E	692	150	0100-0700	1,L
	Baymak, E	692	50	0700-1200	3
				1200-1600	1,L
	Unknown	701		1600-2000	3
	Dushanbe, Tad	710	50		2
	Tallinn, E	710	5		
	Kohtla-Jarve, Est	710	5	0300(Sun	
	Pärnu, Est	710	5	0325)-2130	I,II
	Tartu, Est	710	5		
	Donetsk	710	150	0300-2200	I,L
				2200-0200	2
	Blagoveshchensk, S	710	50		
	Ashkhabad, Tur	728	50		
20)	Chelyabinsk, S	737	50	0100-2330	2,L
	Arkalyk, Kaz	746	15	0000-1100	I,L
	Karaganda, Kaz	746	200	1130-1930	I,L
21)	Medvezhyegorsk, E	764	150	0200-2103	1,L
	Odessa, Ukr	764	50	0256-2200	I,L
	Chardzhou, Tur	764	30	0100-2100	I
22)	Voronezh, E	773	100	0200-0100	2,L
	Kiev, Ukr	782	100	0300-1515	II
	Uzhgorod, Ukr	782	50	0300-1515	II
	Simferopol, Ukr	782	50	0300-2200	II
	Kazan, E	782	150	1600-2200	1,L
				2200-0100	2
	Tselinograd, Kaz	782	30	0000-1930	I,L
	Spassk Dalniy, FE	782	75	1900-1500	1
	Ashkhabad, Tur	782	300		
23)	Astrakhan, E	791	50	0200-2100	1,L
				2100-0100	2
24)	Leningrad, E	800	1000	0200-2200	1,L
	Dushanbé, Tad	800	500	2300-0130	1
			1000	0230-1100	2
			500	1300-1930	1
			500	2030-2300	F
	Ulan Ude, S	800	1000	2100-0800	1
				0900-2100	F
	Kharkov, Ukr	809	6		
	Kuybyshev, E	809	30	0100-2200	2
	Ulyanovsk, E	809	50		
	Volgograd, E	809	150		
	Bodaybo*, S	810	50	2100-2000	2
5)	Vladivostok, FE	810	150	2200-0830	1
				0830-1400	C
25)	Gorkiy, E	827	50	0300-0200	2,L
26)	Kyzyl, S	827	50	2300-1800	1,L
	Kharkov, Ukr	836	150	0300-1620	I,L
				1620-2200	II
				2200-0100	2
	Baku, Az	836	50		
	Spassk Dalniy*, FE	840	50		2
1)	Moscow, E	845	15	0330-2005	1,L
	Elista, E	845	30	0145-2200	I,W
				2200-0030	2
	Naryan-Mar, E	863	50		
	Yerevan, Arm	863	150	0200-1300	I
				1300-2100	F
	Moscow, E	872	150	0300-2000	2,3
	Leningrad, E	872	150	0300-0200	2,3
	Minsk, Blr	872	150	0400-0300	2,3
	Ulyanovsk, E	872	150		
	Kishinev, Mol	872	150		
	Stavropol, E	881	150	0200-2200	2,L
	Naryn, Kir	881	500	2300-1930	I
	Baku, Az	890	30	0200-2100	1
	Uzhgorod, Ukr	890	150	0230-1530	2,L
				1530-2230	F
				2230-0130	2
31)	Tyumen, S	890	100	0100-2005	1,L
	Yoshkar-Ola, E	899	50	0155-2200	2,L
8)	Mezen, E	908	100	0200-2200	2,L
14)	Makhachkala, E	917	50	0200-2200	2,L
	Vladimir, E	926	30	0200-2100	2
	Lvov, Ukr	935	100	0256-1600	I,L
	Vinnitsa*, Ukr	935		1630-0100	F

	STATION	kHz	kW	h. of tr. & prgr.	
14)	Arkalyk, Kaz	935		1100-1930	I,L
	(Tetyukhe?)	935		1230-1500	I
				1500-1800	2
	Riga, Lat	944	50	0200-0100	2
27)	Rostov-na-Donu, E	944	300	0100-2200	2,L
	Nikolayev, Ukr	971	500	1430-2130	F
36)	Yuzhno-Sakhalinsk, FE	973	50	1900-1400	1,L
				1400-1800	2
	Aktyubinsk, Kaz	980	150	1520-1930	I
	Kishinev, Mol	998	100	0300-2200	I
	Birobidzhan, FE	998	25	2000-0900	2
	Magadan, FE	1010	50	1800-1700	2
	Slonim, Blr	1016	50	0245-2200	II,2
	Ushachi, Blr	1016	50		
	Baku, Az	1016	150	0157-2200	I,II
	Novosibirsk, S	1025	200	2330-0400	1
				0400-1500	3
				1500-2230	F
	Tallinn, Est	1034	500	0300-2105	I
				2105-2205	F
	Tbilisi, Geo	1043	100	0100-0730	2
				0730-1830	II
				1830-2100	2
28)	Saransk, E	1061	150	24hrs	2,L
	Dnepropetrovsk, Ukr	1070	20	0300-2200	1,L
				2200-0100	2
	Riga, Lat	1070	60	0300-2200	1,L
	Kuldiga, Lat	1070	50		
	Valmiera, Lat	1070	50		
	Ust-Kamenogorsk, Kaz	1070	100	0000-1930	I,L
	Kyzyl, S	1079	500	0900-0030	F
	Krasnodar, E	1088	300	0100-2200	2,L
	Unknown, No.We. E	1097		0150-	2
	Alma Ata, Kaz	1097	150	0000-1930	II
	Kaunas, Lit	1106	150	0300-2200	II
				2200-2300	F
	Nalchik, E	1106	35	0300-2200	1,L
	Arkhangelsk, E	1106	100		
1)	Moscow, E	1115	5	0200-2200	1,L
	Sochi, E	1115	30	0200-2200	1
	Unknown, FE	1120		2000-1500	2
	Yerofey Pavlovich*, S	1120	50	2100-1600	2
24)	Leningrad, E	1124	150	0300-1900	1,L
				1900-2200	C
	Dzhezkazgan, Kaz	1133	25		
29)	Kaliningrad, E	1142	150	0200-2200	1,L
30)	Kuybyshev, E	1142	100	0200-2200	2,L
	Dushanbé, Tad	1142	150	0000-1300	II
				1300-1830	2,F
	Komsomolsk, FE	1150	30	2000-0900	2
				900-1400	C
31)	Khanty-Mansiysk, S	1151	25	0100-2005	1,L
	Dushanbé, Tad	1160	1000	1800-2100	F
	Moghilev, Blr	1169	1000	1600-2230	F
	Unknown, Ukr	1169	50	0400-1630	3
	Maykop, E	1169	500	1400-2300	F
	Ulan Ude, S	1169	250	1100-2100	F
	Petropavlovsk*, Kaz	1178	30		
	Ft. Shevchenko, Kaz	1187	25	0000-1930	I
	Kaunas, Lit*	1196		0240-2200	2
	Minsk, Blr	1196	50	0300-2200	2,II,
	Brest, Blr	1196	5		L
	Grodno, Blr	1196	5		
	Guryev, Kaz	1205			I,L
	Orissaare, Est	1214	30	0300(Sun	
	Tartu, Est	1214	50	0325)-2103	
	Kiev, Ukr	1241	150	1545-2200	II
				2200-2400	F
	Volochisk, Ukr	1241	50	1615-2200	II
	Simferopol, Ukr	1241	50		
	Donetsk, Ukr	1241	30	0300-2200	II
	Odessa, Ukr	1241	30		
	Cherkessk*, E	1250	5	0145-	2
	Vladivostok, FE	1250	1000	0800-1430	F
				1500-0700	F
	Kuybyshev, E	1277	100	0300-0500	2
	Rostov-na-Donu, E	1277	50	0500-2000	3
	Odessa, E	1277	150		
	Baku, Az	1295	150	0157-2200	I,II
	Dushanbé, Tad	1295	1000	1130-1730	F
				2200-0200	2

	STATION	kHz	kW	H. of tr. & prgr.	
31)	Tselinograd*, Kaz	1304	50		1
	Unknown, FE	1313			2
	Komrat, Mol	1313		0300-2200	2,II
	Beltsy, Mol	1313			
	Stavropol, E	1313	500	1630-2200	F
	Tskhinvali, Geo	1322	30	0200-2100	2
	Kohtla-Järve, Est	1331	15	0300(Sun	
	Pärnu, Est	1331	30	0325)-2103	
	Voru, Est	1331	30		
	Alma Ata, Kaz	1340	30	2300-1900	1
	Kuldiga, Lat	1349	20	0300-2200	I,F
	Madona, Lat	1349	50		
	Yerevan, Arm	1349	500		
	Sukhumi, Geo	1349	30	0200-2100	I,L
1)	Moscow, E	1358	15	0300-0600	1,L
				0600-1400	3,L
				1400-2100	C
				(4th prgr)	
	Novosibirsk, S	1367	500	1230-2100	F
	Chernovtsky, Ukr	1376	50		
	Lutsk, Ukr	1376	50	0256-1620	I,L
	Skalat, Ukr	1376	25	1620-2200	II
	Tokmak, Ukr	1376	25		
	Vinnitsa, Ukr	1376	30		
	Sisian, Arm	1376	25	0200-2200	I
	Vladivostok, FE	1376	30	1900-1500	1
	Kaliningrad, E	1385	1000	0400-1400	3
				1400-1500	2
				1500-2230	F
	Unknown, Ukr	1394		0300-2200	2
	Lvov, Ukr	1403	30		
	Dnepropetrovsk, Ukr	1403	30	0300-2200	II
	Izmail, Ukr	1403	25		
	Naryn, Kir	1403	5	2300-1930	I
	Volgograd, E	1412	50		
	Batumi, Geo	1421	30	0200-2100	I,L
	Liepaja, Lat	1421	5		
	Rezekne, Lat	1421	5	0300-2200	I
	Valmiera, Lat	1421	50		
	Krivoy Rog, Ukr	1430	500	0300-1500	1
				150-2230	F
	Osh, Kir	1430	50	2300-1930	I
	Przhevalsk, Kir	1430	50		
32)	Kalinin, E	1448	30	0200-0500	1,L
				0600-2000	3,L
				2000-2200	1
	Kishinev, Mol	1448	50	0300-2200	2,II
	Unknown, E	1448		0200-	2
	Yalta, Ukr	1466	30	0300-0200	2
	Frunze, Kir	1466	30	2300-1930	I,II
	Osh, Kir	1466	15		
	Lvov, Ukr	1475	120	0000-1600	2
	Baku, Az	1475	25	0157-2200	I,II
	Vladivostok, FE	1475	150	1430-2100	F
	Moscow, E	1484	50		
	Liepaja, Lat	1484	5		
	Daugavpils, Lat	1484	5	0300-2200	1
	Tsesvayne, Lat	1484	5		
	Vilnius, Lit	1484	2		
	Kiev, Ukr	1484	2		
	Leningrad, E	1493	150	1630-0030	F
	Unknown, No. E	1502		0300-2200	2
	Unknown, Ce. E	1502		0145-2200	2
	Dushanbé, Tad	1502	5	0000-1900	1
	Tallinn, Est	1511	30	0300-2200	1,L
	Kiev, Ukr	1511	5	0200-2200	2,3
	Sochi, F	1511	30	0200-2200	2
	Aktyubinsk*, Kaz	1511	100	0100-2000	2
	Moscow+several sts	1525		24h	2
33)	Vologda, E	1538		0200-2200	2,L
	Yalta, Ukr	1538	25	0200-2100	2,II
	Taldy Kurgan, Kaz	1538	5	0000-1930	II
	Vinnitsa, Ukr	1546	50	1530-2300	F
	Kaunas, Lit	1554	75	0200-2200	II
	Klaipeda, Lit	1554	5	2200-2300	F
	Veshintos, Lit	1554	50		
	Leningrad, E	1570	60		
	Minsk, E	1570	5	0300-2200	2
	Odessa, Ukr	1570	5		
	Yerevan, Arm	1570	5	0100-2200	2
	Semipalatinsk*, Kaz	1570	10		

	STATION	kHZ	kW	H. of tr. & prgr.	
33)	Tashkent, Uz	1570	5	0000-1900	2
	Khabarovsk, FE	1570		2000-0900	2
				0900-1400	C
	Yuzhno-Sakhalinsk, FE	1570	5	1900-1400	2
	Dnepropetrovsk, Ukr	1586	5		
	Kishinev, Mol	1586	5	0200-0100	2
	Baku, Az	1586	5		
	Dushanbé, Tad	1586	5		
	Khabarovsk, FE	1586	5		
	Unknown, E	1594	20		2
	Unknown, E (Blr?)	1602		0245-	2

Regional Home Services on Shortwave. Stations only relaying R. Moscow have been omitted.

	STATION	kHz	H. of tr. & prgr.	
26)	Kyzyl, Tuva ASSR, S	3995	2300-1800	1,L
	Frunze, Kir	4010	2300-1930	1
18)	Anadyr, FE	4030	1800-1200	1,L
	Semipalatinsk, Kaz	4040	0130-0200	
			1330-1500	L
	Yerevan, Arm	4040	0300-2100	I
	Frunze, Kir	4050	2300-1930	II
36)	Yuzhno-Sakhalinsk, FE	4050	1900-1400	1,L
	Petropavlovsk, Kaz	4055	0130-0200	
			Mon-Fri	L
	Chimkent, Kaz	4310	0130-0200	L
			1330-1500	L
	Kokchetav, Kaz	4420	0100-0200	
			1330-1500	L
19)	Ufa, Bashkir, ASSR, E	4485	0200-1600	1,L
35)	Petropavlovsk-Kamchatskiy, FE	4485	1800-1700	1,2,L
	Palana, FE	4520	0500-0600a)	L
			0700-0800b)	L
31)	Khanty-Mansiysk, S	4520	0100-2005	1,L
	Alma Ata, Kaz	4545	0000-1930	I
	Khabarovsk, FE	4610	1800-1400	1,L,C
	Pavlodar, Kaz	4615	0130-0200	L
			1330-1500	L
	Dushanbé, Tadz	4635	2300-2000	I
	Dzhambul, Kaz	4760	0130-0200	L
			1330-1500	L
	Petrozavodsk, Karelian ASSR, E	4780	0200-2200	1,L
	Baku (relay) Az	4785	0157-2200	I
	Ulan Ude, Buryat ASSR, S	4795	2200-1700	1,L
	Naryn, Kir	4795	2300-1930	I
	Naryan-Mar, E	4795	1800-1900W	L
34)	Yakutsk, Yakut ASSR, S	4800	variable	1,L
	Yerevan, Arm	4810	0200-1300	1
			1300-2000	II
	Osh, Kir	4810	2300-1930	I
	Ashkhabad, Tur	4825	0100-2100	I
			2100-2400	2
34)	Yakutsk, Yakut ASSR, S	4825	variable	1,L
	Tashkent, Uz	4850	0000-1930	II
	Uralsk, Kaz	4875	W0330-0400	
			1300-1500	L
	Ashkhabad, Tur	4895	0200-2000	II
			2000-0100	2
31)	Tyumen, S	4895	0100-2005	1,L
	Yakutsk, Yakut ASSR, S	4920	variable	1,L
	Kiev, Ukr	4940	0300-2200	II
	Frunze, Kir	4940	2300-1930	I
34)	Yakutsk, Yakut ASSR, S	4940	variable	1,L
	Baku(local), Az	4958	0800-2200	II
	Blagoveshchensk, S	4975	23h	1,L
	Dunshanbé, Tadz	4975	0000-1300	II
	Yerevan, Arm	4990	0200-1300	I,III
5)	Vladivostok, FE	5015	1600-1500	1,2,L
	Alma Ata, Kaz	5035	0430-1200	II
	Tbilisi, Geo	5040	0200-2105	I
	Kzyl-Orda, Kaz	5055		
	Chita, S	5055	2200-1730	1,L
	Petrozavodsk, Karelian ASSR, E	5065	0200-2100	1,L
	Alma Ata, Kaz	5260	0000-1800	II
2a)	Krasnoyarsk, S	5290	2300-1800	1,L
	Tashkent, Uz	5925	0000-1930	I
17)	Murmansk, E	5930	0300-2100	1,L
4)	Magadan, FE	5940	1700-1200	1,2,L
	Alma Ata, Kaz	5960	0000-1800	II
	Alma Ata, Kaz	5970	0000-1930	I
	Kiev, Ukr	6020	0630-1630	II
	Tallinn, Est	6085	1600(Sun 0800) -2100	I
	Irkutsk, S	6090	2200-1700	2,L
	Baku(relay)	6135	0300-1300	II
			2000-2200	II
	Alma Ata, Kaz	6180	0000-1800	I
34)	Yakutsk, Yakut ASSR, S	7100	variable	1,L
34)	Yakutsk, Yakut ASSR, S	7200	variable	1,L
	Khabarovsk, FE	7210	2000-1900	1,2,L
34)	Yakutsk, Yakut ASSR, S	7265	variable	1,L
4)	Magadan, FE	7320	1600-1500	1,2,L
	Yakutsk, Yakut ASSR, S	7345	variable	1,L
4)	Magadan, FE	9500	1500-1400	1,2,L
	Alma Ata, Kaz	9505	0000-1930	I
	Minsk, Blr	9540	0300-2200	I
	Unknown, Blr	9545	0300-2200	2,II
	Unknown, Blr	9560	0300-2200	2,II
34)	Yakutsk, Yakut ASSR, S	9585	variable	1,I
4)	Magadan, FE	9600	1400-1300	1,2,L
	Unknown, Blr	9670	Sat, Sun 0300-2200	2,II
	Kaunas, Lit	9710	0600-1700	I
	Yakutsk, Yakut ASSR, S	9725	variable	1,L
	Alma Ata, Kaz	9780	0000-1800	II
	Unknown, Blr	9795	0300-2200	I
34)	Yakutsk, Yakut ASSR, S	11765	variable	I,L
36)	Yuzhno-Sakhalinsk, FE	11840	1900-1400	I,L
	Khabarovsk, FE	11895	1958-0900	1,L
	Alma Ata, Kaz	11950	0000-1930	I
	Moghilev, Blr	11995	0300-2200	I
	Minsk, Blr	12005	0300-2200	I

a) Mon/Tues/Thurs – b) Wed/Fri/Sat/Sun.

PROGRAMMES

1st prgr: A general style prgr. intended for all-union coverage. Main freqs are 173 and 236kHz. It is also relayed in part by many local sts and by the 1st prgrs of the republics. Because of the vast time differences between East and West there are four editions; Edition 1 to European USSR, Turkmenia, Sverdlovsk and Tyumen oblasts 0200-2200; Edition 1C to the rest of We. Siberia and Ce. Asia and to Kazakhstan 2300-1900; Edition 1B to Ea. Siberia 2100-1700; Edition 1A to the Far East 1900-1500.

2nd prgr: Mayak (lighthouse): A musical prgr. intended for all-union coverage featuring all kinds of music. On the h. and half h. there are 5-10 mins of news, interviews and/or reports preceded by the interval signal. At times also carries live sports reports. This prgr. is on the air continuously. Main freqs: 155, 548, 575, 611kHz, also relayed in part by many local sts.

3rd prgr: Mainly a musical and literary prgr. Presently transmitted to European USSR, Novosibirsk area and Kazakhstan. On the air 0400-2000. Main freqs: 872 and 1277kHz.

Republican 1st prgrs: The republics have their own 1st prgrs which in most cases consist of relays of Moscow 1st prgr. and own prgrs in Russian and the main language of the republic. In the Baltic republics separate Russian and own language prgrs are broadcast.

Republican 2nd prgrs: Most republics have a 2nd prgr. in the main language of the republic. The total time span varies from a few hours to most of the broadcast day. These prgrs usually have a special name, which is the only station identification used.

Local prgrs: Most districts (ASSRs krays, oblasts, okrugs) have their own local prgrs, which are broadcast for a few hours a day on a transmitter within or near the district. These prgrs consist of local news and weather, press review locally produced features. Prgrs in local languages are also included where applicable.

City prgrs: Special locally produced evening prgrs are broadcast for some major cities.

FM: 66-78MHz. Most MW-LW prgrs are also carried by FM trs, especially in densely populated areas. Furthermore special stereo prgrs are broadcast from 16 centres.

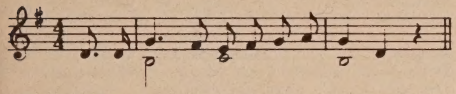
SHORTWAVES: Further to the transmissions shown above the all-union prgrs as well as the foreign sces prgrs are broadcast on numerous SW-trs. As times and freqs vary considerably throughout the year these transmissions are not listed here.

MONITORED SW-FACILITIES (figures in brackets indicate number of trs used): Alma Ata, Kaz(17) – Armavir, E(10) – Blagoveshchensk, FE(3) – Chita, S(3) – Dushanbé, Tad(6) – Irkutsk, S(8) – Kalinin, E(6) – Khabarovsk, FE(11) – Kiev, Ukr(7) – Krasnoyarsk, S(4) – Leningrad, E(11) – Moscow, E(23) – Nikolayevsk, FE(10) – Novosibirsk, S(19) – Orsha, Blr(3) – Petropavlovsk, FE(5) – Serpukhov, E(6) – Simferopol, Ukr(6) – Starobelsk, Ukr(3) – Sverdlovsk, S(9) – Tashkent, Uz(12) – Tula, E(8) — Unknown, So.Ukr(6) – Vinnitsa, Ukr(3) – Vladivostok, FE(7) – Yakutsk, S(5) – Yerevan, Arm(9) – Zhigulevsk (near Kuybyshev), E(18) – Others around (50) – Total around (285).

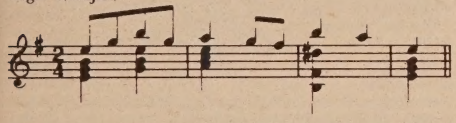
Powers: 1LW, MW powers listed are the official ones. SW-trs in the 49-13mb are listed as using 50, 100 or 240kW.

MAINTENANCE: Most trs are off regularly one day every 2nd or 3rd week for some hours during local daytime (Mon-Fri only) for maintenance.

STATION IDENTIFICATIONS: In Russian the originating studio is usually identified by "Govorit" and name of city. Announcements in other languages are found under the sts concerned – **INT-SIG:** Foreign service.



Prgr. 2(Majak):



VERIFICATIONS: QSLs are usually received from Tallinn, Riga, Vilnius, Kiev, Tashkent, Baku and Yerevan, especially for reports on foreign sce prgrs. Other regional sts rarely verify reports directly. In some cases reports in Russian are, however, accepted.

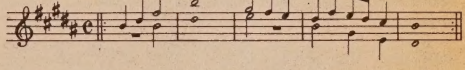
PUBLICATIONS: Details of the all-union programmes are published in "Govorit y Pokazyvayet Moskva" (Moscow speaking and showing), which is issued weekly in three editions. Numerous regional and local papers, magazines and leaflets give details of republican and local prgrs.

SOURCES: The home service section has been compiled mainly from monitors reports and schedules and programme journals kindly sent in by listeners and readers.

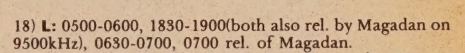
Addresses and other information
N.B: Calendar days refer to local time.

RSFSR

1) Pyatnitskaya 25, 113326 Moskva. **Prgrs to Moscow district:** 845kHz (0330-2005) and 66.44MHz (0300-2200). **L:** Mon-Fri 0330-0400, 0810-0830, 1500-15530; Sat, Sun 0730-0800, 1215-1300; otherwise relay 1.
Prgrs to Moscow city: 1115kHz (0200-2200) and 72.92MHz. **L:** Mon-Fri 0345-0400, 0525-0540, Tues-Fri 0810-0815, Mon, Wed, Fri 1500-1540, Tues, Thurs 1500-1600, Sat 0525-0545, 0730-0750, 1215-1300; otherwise relay 1.
2nd prgr: 200kHz 0300-1900, 548kHz 0000-2300, 611kHz 1930-0200, 67.22MHz 0200-2200.
3rd prgr: 872kHz 69.8MHz 0400-2000.
4th prgr: Mon-Fri 1400-21100, Sat-Sun 0900-2100 on 1358kHz and 68.84MHz.
This prgr. also in stereo (musical prgr) on 72.16MHz Mon-Fri 1400-1800, Sat-Sun 0900-1300.
2) Ul. Novaya d.4, 656099 Barnaul. **L:** Prgrs from Barnaul and Gorno-Altaysk.
2b) Studio: Krasnoyarsk. Also relay on 683kHz(Abakan).
3) Studio: Sverdlovsk. **L:** 0130-0200 Mon-Fri, 0215-0300 D, 0315-0400 Mon-Fri, 0410-0440 D, 0525-0600 Mon-Fri, 1145-1200 Mon-Fri, 1215-1400 Sat, 1500-1540 Mon-Fri.
4) **L:** Rep 0400-0500, 2115-2200.
5) Ul. Uborevitsa 20-A, Vladivostok-Central 690000. **L:** D 2045-2100, W 2110-2120, 2140-2230(Mon 2240), Sat 0030-0215, Sun 0035-0215, Mon-Fri 0215-0315, Sun 0515-0600, Mon 0930-1130, Tues, Thurs, Fri 0930-1215, Sat 0930-0950, Wed 1000-1100, Sat, Sun 1030, Mon 1300-1500, Fri 1325-1500. Produces Radiostantsia Tikhiy Okean (R. St. Pacific Ocean) broadcast on various SW freqs Mon, Wed, Fri, Sat, Sun(GMT) 0700-0800, 1430-1530, 1900-2000.
6) **Kazan: L.** in **Russ/Tatar** on 254kHz rep. 0410-0500, 1540-1600, on 782kHz; rep. W 1620-1800. **Kirov: L.** rep. on 254kHz 0230(Sun 0215)-0300, 1400-1500. **Ulyanovsk:** Ul. Simbirskaya 5, Ulyanovsk. **L.** rep. 0300-0400, 1500-1540 on 254kHz.
7) **Novosibirsk:** Ul. Vertkovskaya 10, Novosibirsk 630048. **L:** D 0115-0130(Mon 0200), Fri 0230-0245, 0315-0345, Mon-Fri 0420-0430, Mon 0515-0545, Sun 0515-0600, Thurs 0910-0930, Mon/Tues/Wed/Fri 0930-0950, W 1315(Fri 1445)-1530. **Wrp:** 2329, 2359, 0014, 0029, 0059, 0200, 0859, 1529. **Tomsk: L:** W 0200-0300(Fri 0230), Sat 0700-0800, Mon-Fri 1200-1240.
8) **Arkhangelsk: L:** 0420-0440, Mon 0515-0545, Tues 0515-0600, Mon 1500-1540, Tues-Thurs 1500-1600, Mon/Wed/Fri 1620-1700, Wed 1700-1730, Fri 1720-1750, Sat 1000-1100, 1120-1200, 1300-1400.
9) Dom Sovietov, 460015, Orenburg. **L:** W 0130-0200, D 0410-0440, Mon-Fri 1215-1300, 1500-1540. Relay 1 1300-1500, otherwise relay 2.
10) **L:** W 0230-0300, Sun 0410-0440, W 0525-0545, Sun 1215-1300, W 1600-1640, Wed 1630-1730.
11) Ul. Tekhnicheskaya 21, GSP-128, Perm.
12) **L:** 0320-0400, 1530-1600.
13) Oktyabrskiy pr. 160, Syktyvkar. **L.**+1 W 0155-0500, 1400-1600, otherwise 2.



14) **L.** in **Russian.** 0330-0400, 1500-1540, at various times prgrs in **Dargin, Lezgin, Avar, Lak** and **Kumyk.**
15) Dom Radio, Saratov. **L:** Mon-Sat 0420-0500, 1500-1540, Mon-Fri 0330-0400, 0635-0700, Sat 0730-0800, 0930-1000, 1400-1500.
16) **L:** W 0130-0140, D 0215(Mon 0220)-0230, Mon 0515-0530, Sat 1000-1200, Mon-Fri 1200-1230, 1315-1600, Sun 1200-1300.
17) **L:** Sun 0410, Tues 0420, D 0515, Sun 0730, Sat 0820, Mon-Fri 1000, Sat 1215, Mon-Fri 1500, Mon/Wed 1630.



18) **L:** 0500-0600, 1830-1900(both also rel. by Magadan on 9500kHz), 0630-0700, 0700 rel. of Magadan.
19) Ul. Gafuri 13/1, Ufa 450076. **L.** in **Russian/Bashkirian** 0200-0300(W), 0410-0500(Sun), W 0800-0900(Sat 1140), Sun 0815-1200, Mon-Fri 1200-1600.
20) **Chelyabinsk: L:** W 0230-0300, D 0515-0600, Sat-Sun 1215-1230, Thurs 1230-1300, Mon-Wed/Fri 1400-1500, Thur-Fri 1500-1530. **Kurgan: L:** W 0315-0330, W 0410-0440, Mon-Fri 1300-1400.
21) Ul. Frunze, Petrozavodsk. **L: Russian** Mon/Wed/Fri 0330-0700, Mon-Fri 1515, **Finnish** Wed 0615, Mon-Fri 1500, Fri/Mon 1620.
22) Ul. Karl Marxa 114, 394625 Voronezh. **L:** Mon-Fri 0420, D 0515-0600, Sat 1000, Sun 1300, Mon-Fri 1500-1600.
23) **L:** 0410-0440, 1500-1540.
24) Ul. Rakova 27, Leningrad 11. 1st prgr. on 800kHz, 2nd prgr. on 1124kHz: Own prgr. 1900-2100, otherwise relay 1st prgr.

25) Kreml Gorkiy. **L:** Mon-Fri 0330-0400, 0525-0545, 0810-0830, 1500-1530, Thurs 1230-1300, Thurs/Sat 1530-1600, Sat 0525-0545, 1000-1100.
26) **L:** Rep. 0015-0115, 1200-1300.
27) **L:** Mon-Fri 0330-0400, 0530-0600, 0910-0915, 1500-1530, Sat/Sun 0515-0545, Sat 0800-0900, Tues 0810-0830, Sat 0915-1030, Mon 1620-1650, Wed 1620-1800.
28) Ul. Dokuchayeva 29, Saransk. **L. in Russian,** and **Mordovian**; Reported Mon-Fri 1400, Sat 1215. **L.**+1 also 0500-0700.
29) **L:** 0420, 0515, Sat 0800, Mon-Fri 1000, 1500, Mon/Wed/Fri 1800.
30) **L.**+1 Mon-Fri 0400-0500, 0830-1000, 1500-1600. **L.** rep. 0330-0400.
31) **Tyumen** (on 890, 1151, 4520, 4895kHz), Dom Radio, Ul. Khokhryakova 53, Tyumen. **L:** 0235(Sat 0230, Sun 0215)-0300, Mon-Fri 0315-0400, Mon-Sat 0420-0430, Sat 0515-0600, Mon-Fri 1445-1600. **Khanty-Mansiysk** (on 1151/4520kHz): **L.** (incl. **N. in Khanty** and **Mansi**) Mon-Fri 0215-0235, Sat 0410-0430, Sat 1300-1400, Mon-Fri 1400-1445.
32) Ul. Bagzhanova 37, Kalinin. **L:** W 0420-0440, 0515-0600, Mon-Fri 1500-1540.
33) **L.** rep. 0330-0400, 0420-0440.
34) Dom Radio, Ordzhonikidze 40, Yakutsk 677892. **L:** 2245(Sat 2230)-2300, Sat 0100-0200, Sun 0315-0400, Tues-Fri 0400-0430, Sun 0515-0600, 0945(Sat 0940)-1300. **SW** sched. as of 1 Sept: 2100-0015 on 7100/7200/7265kHz; 0030-0910 on 9585/9725/11765kHz; 0925-1600 as 2100; 1600-1700 and 2000-2100 on 7200kHz only. During the winter lower freqs are used.
35) Dom Radio, Sovietskaya 31, Petropavlovsk-Kamchatskiy. **L:** Sat 0030, Mon-Fri 0630, Mon/Wed/Thurs 0930, Mon 1100, W 1825, D 1930-2000, D 2230. A special prgr. for fishermen "Kamchatka Rybatskaya" is broadc. Wed/Fri/Sun 1900-2030 on freqs in the 41, 31, 25mb.
36) Dom Radio, Ul. Komsomolskaya 211, 693000 Yuzhno-Sakhalinsk. **L:** 1800-1900(only on 11840kHz), Sat 1930-2000, 2045-2100, 2110-2140, W 2140-2200, 0345-0400, 0930-1200. **Korean:** 0835-0900(on 973kHz only).

ARMENIA

5 Mravian Str, Yerevan. **I:** 0200-2200 on 254/4040kHz, 0200-1300 also on 863/4810/7275kHz. 0215-2200 own prgrs in **Armenian** and **Russian,** otherwise relay 1. **II** (Tsiatsan): 1300-2000 on 4810kHz in **Armenian.**
ANN: "Khosume Yerevana" or "Yerevanne Khosum".

AZERBAIJAN

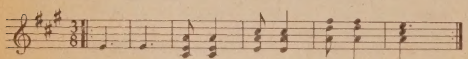
Ul. M. Guzeina 1, 370011 Baku. **I:** 0200-2200 on 218/1016/4785kHz. Own prgrs in Azerbaijanian and relay 2. **II**(Araz): 0200-2200 on 1295/1475/4958/9840kHz. Own prgrs in **Azerbaijanian** 0200-0800, relay I.
ANN: "Danishyr Baku".

BYELORUSSIA

Minsk: Ul. Krasnaya 4, Minsk. **I:** On 281kHz 0200-2200 in **Russian** and **Byelorussian**. Rel. on SW on 9540/9795/11995/12005kHz. **II**(Krynitsa): in **Byelorussian** on 1016/1196/9545/9560/9670kHz W 0700-1030. **L:** prgrs from various studios W 0600-0u00 on 1196kHz.
ANN: "Havorits Minsk".

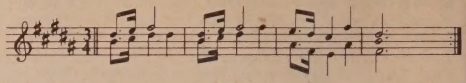
ESTONIA

Eesti Raadio, Lomonossovi 21, 200100 Tallinn. **I:** 0300(Sat-Sun 0325)-2103(with breaks for F or Russian prgrs) on 1034/1214/1331kHz. Own prgrs in **Estonian** except for a few newscasts in **Russian**. **II**(Viker-raadio): 0300(Sat/Sun 0325)-2130. Own prgrs in **Estonian:** W 0805(Mon 0900)-1000, 1100-1200, 1400-1800, 2000-2130; Sat 0700-0800, 0830-1000, 1100-1630, 1900-2130; Sun 0700-1100, 1200, 1800, 1900-2130. Other times relay 1. **Russian:** Tues-Fri 0545, Mon-Fri 1500-1600, Sat/Sun 0800-1000 on 1214/1331/1511kHz.
ANN: "Sünn Tallinn".



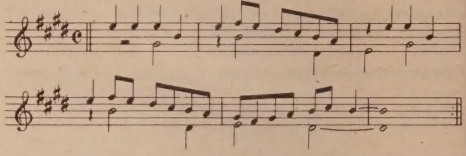
GEORGIA

Tbilisi: 68, Lenin Str, Tbilisi. 380015. **I** in **Russian, Georgian, Armenian, Azerbaijani** on 191 and 5040kHz 0200-2100. Partly also on 1349/1421kHz. **II** (Tbilisi-288) on 1043kHz 0730-1830(until 1430 relay FM prgr).
ANN: Georgian: "Laparakobs Tbilisi". **Sukhumi:** Abkhazskoi Radio, Sukhumi, Abkhaz ASSR 1349kHz W 0700-0830, 1430-1600 in **Russian, Georgian, Abkhaz. Batumi:** 1421kHz W 0705-0800, 1400-1530 in **Russ, Georgian.**



KAZAKSTAN

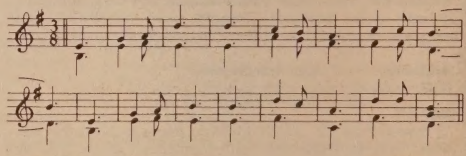
Alma Ata: Ul. Mira 175-A, Alma Ata 480013. **I:** 0000-1930 on 182/4545/5970/6180/9590/9760kHz and relayed by local sts. Own prgrs in **Russian** and **Kazakh:** Mon-Fri 0000-0015, 0130-0140, 0200-0300, 0315-0400, 0415-0430, 0515(Tues-Fri 0545)-0900(Fri 0800, Sun 0730), Fri 0830-0900, Sun 0800-0900, 0910-1000(exc. Sat-Sun), Mon-Fri 1200-1240, Sat 1200-1300, Sun 1230-1300, 1315(Fri 1415)-1530, 1545-1645(Sun 1750). Other times relay 1.



German: Tues-Fri 0910-0940. **II:** 0100-1800 on 1097/5260/5960/9790/5035kHz. Shalkar **(in Kazakh)** 0300-1200, 1500-1800. Selskaya Zhizn(rural life) 0100-0300 in **Russian,** 1200-1500 in **Kazakh. L:** Local prgrs reported: 0130 on 182kHz(studio Taldy Kurgan), 263kHz(Karaganda) 746kHz(Arkalyk), 782kHz(Tselinograd), 1070kHz(Ust-Kamenogorsk), 0230 on 683kHz(Kustanay), 1330-1500 on all sts(182kHz Taldy Kurgan, 746kHz Karaganda, 1097kHz Alma Ata) and as shown in SW list.
ANN: Kazakh: "Almatydan(Kzyl Ordydan, etc) söilep tur-'mys".

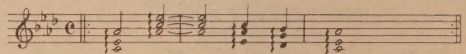
KIRGHIZIA

Dom Radio, Pr. Molodoy Gvardii 720885 Frunze 10, GSP. **I:** 2300-1930 on 881/1403/1430/4010/4795/4810/4940kHz. Own prgrs in **Russian** and **Kirghizian:** Mon 2315-2330, 0015-0030, 0130-0140, 0200(Sun 0130)-0300, 0335(Tues/Thurs 0315)-0400, W 0415-0430(Sat 0500), 0515(Sat 0525)-0545(Sat 0720, Sun 0600), W 0600(Sat 0730)-0900, Sun 0615-1100, W 0915(Sat 0910)-0950, W 1000-1100, Mon-Fri 1200-1240, Sat 1215-1300, Sun 1230-1300, 1315-1530(Sun 1545), W 1545-1700(Sat 1600), Tues 1700-1800. **II:** 2300-1930 on 1466/4050kHz. Own prgrs in **Russian** and **Kirghizian:** Mon-Fri 0100-0200, Wed/Thurs 0100-0130, Wed/Thurs 0440-0500, 0600(Sun 0615, Tues 0635)-0700(Sun 0800), Mon/Tues/Fri 0840-0900, Sun 1230-1400, Mon-Fri 1315-1500. Other times relay I or 1.



LATVIA

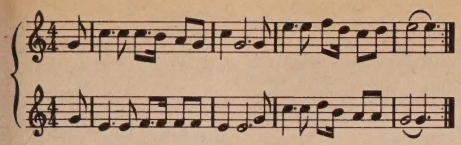
Latvijas Radio, Box 266, Riga. **I:** 0300-2200(exc. for F prgrs) on 575/1349/1421kHz. Own prgrs in **Latvian** and limited **Russian. II:** 0300-2200 on 1070/1484kHz. Mainly relay 1, with some own prgrs in **Russian** and **Latvian.**
ANN: "Runa Riga".



LITHUANIA

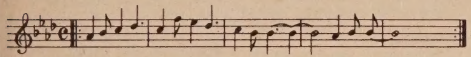
Lietuvos Radijas, Konarskio 49, Vilnius. **I:** 0200-2200 on 665kHz. Own prgrs in **Lithuanian** Mon-Fri 0300-0600, 1500-2200, Sat/Sun 0300-2200 exc. for newscasts in **Russian.** Other times relay 1. **II:** 0200-2200 on 1106/1554kHz. Own prgrs in **Lithuanian**, exc. 0200-0300 relay I.

ANN: "Kalba Vilnius".

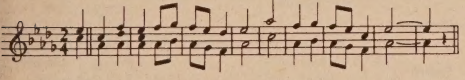


MOLDAVIA
Kotorskoye Shosse 64, 277028 Kishinev. **I:** 0300-2200 on 998kHz. Own prgrs in **Moldavian:** 0300-0400, 0430-0500, 0515-0600, 0615-0800, 0810-0900, 0910-1130, 1215-1400, 1500-1600, 1620-1900, 1930-2050. Own prgr. in **Russian:** 1530-1540. **II** (Luchaferul): 0300-2200 on 1313/1448kHz. Own prgrs in **Moldavian:** 0400-0700, 1500-2100, other times relay 2.
ANN: "Aici este postul de Radio Chisinau", "Aici Luchaferul".

TADZHIKISTAN
Tadzhik Radio, Ul. Ordzhonikidze 17, 734025 Dushanbé. **I:** 2300-1800 on 254/4635kHz. Own prgrs in **Russian/Tadzhik/Uzbek**(approx): 0000-0030, 0215-0300, 0315-0400 W, 0515-0545, 0600-0700, 0800-0900, 0900-1000 Sun, 1000-1100, 1200-1300, 1400-1800. **II:** 0000-1300 on 1142/4975kHz. Own prgrs in **Tadzhik/Uzbek** and **Russian:** 0230-0300, 0600-0700, 0910(Mon 0925)-1300. At other times relay 1.
ANN: Tadjik: "Injo Dushanbé".



TURKMENIA
Ashkhabad: I. 0100-2100 on 281/4825kHz. Own prgrs: **Russian.** 0100-0215(Mon 0200, Sun 0230), 0230-0300, 0315-0330, W 0410-0440, 0515-0600, 0615(Sun 0645)-0700, 1320(Sun 1310)-1400, 1615-1900. **Turkmenian:** 0700-0900, W 1310-1320, 1500-1600, Tues/Sat 1700-1750. **Bilingual:** Sun 0410-0500. **II:** 0200-0900, 1300-1800 on 674/4895kHz. Own prgrs in **Russian:** 1300(Sun 1350)-1530(Sun 1500), W 1530-1600(Mon 1700, Tues 1630, Wed 1615, Thurs 1600, Fri/Sat 1800), Wed 1700-1800. **Turkmenian:** Sun 1530-1630, Thurs 1600-1800, Wed 1615-1700. **Bilingual:** Sun 1300-1350. Other times relay 1.
ANN: Turkmenian: "Gepleyär Ashkhabad".



UKRAINE
Kiev: 26 Kreshchatik Ave, Kiev. **I:** in **Russian/Ukrainian:** 0200-2200 on 209/674/710/1070kHz, partly also on 647/764/836/935/1169/1376kHz. **II**(Promin): 0300-2200 in **Ukrainian** on 782/1241/1403/4940kHz, partly also on 836/1376/6020kHz.
ANN: Ukrainian: "Hovorit Kyyiv".
Simferopol: Krimskoye Radio, Ul. Studencheskaya 11, Simferopol. **L:** Tues-Sun 0410-0440, 0530-0545(Sat/Sun 0600), Sat 1400-1500, Mon-Fri 1510-1540 in **Russian.**
Khmelnitskiy: L. reported Mon-Fri 1500 on 674kHz.
Uzhgorod: L. reported Mon-Fri 0520, 1510 on 674kHz. On 890kHz **Moldavian** 1330-1400, **Hungarian** 1400-1500.
Odessa: L. in **Russian/Ukrainian:** W 0420-0440, Tues-Fri 0530-0550, Sat 0520-0600, Sun 0515-0600, Mon 0530-0545, Mon 1330-1400, Sat 1400-1530, Mon-Fri 1510-1540, 1600-1900. **Moldavian** Tues-Sat 0910-0930(Sat 1000).
Kharkov: Chernyshevsky Str. 22, 312002 Kharkov 2. **L.** in **Russian/Ukrainian** reported Sat 1500-1600.
Lvov: L: W 0410-0440, Tues-Sun 0520(Sun 0515)-0600, Sat/Sun 0910-1000, Mon-Fri 1200-1215, Sun-Fri 1330-1400, Sat 1400-1500, Mon-Fri 1510-1540, Sat 1530-1600 in **Ukrainian.**
Dnepropetrovsk: L: Tues/Fri 0410-0440, Tues-Sat 0520-0550, Tues-Fri 1330-1345, W 1510-1540.
Lutsk: L: 0410-0440(Sun 0500), 0520-0550(Sun 0600), Mon-Fri 1510, Sat 1500.
Vinnitsa: L: W 0510-0540, also reported Sat 1400-1500.
Chernovtsy: L: in **Moldavian** on 1376kHz 1300-1330.

UZBEKISTAN
Khorezmskaya 49, Tashkent, GSP. **I:** 0000-1930 on 164/5925kHz. Own prgrs in **Uzbek** and **Russian,** and relay 1. **II:** 0000-1930 on 665/4850kHz. Own prgrs and relay 1.
ANN: "Tashkentdan gapiramis".

FOREIGN SERVICES

General notes
For each transmission a number of trs at various locations are selected. Many of the transmissions from regional centres are aired over facilities located outside the respective republics. For transmissions to the Americas relay trs located in Bulgaria are also used. Furthermore a number of prgrs are transmitted over the home service facilities of the target countries.

Russian (freqs variable):

0030-0130	Dlya tekh kto v more (for those at sea)
0130-0200	News
0200-0300	Radiostantsia Rodina (R.St. Homeland)
0200-0400	Relay of 1st B prgr.
0500-0530	News, music
0600-0700	Relay of 1st prgr.
0700-0800	Radiostantsia Tikhiy Okean (R.St. Pacific Ocean) Sun/Wed/Fri/Sat
0800-0900	Dlya tekh kto v more
0900-0930	To Soviet specialists abroad (Tues, Fri), other days news, music
1200-1230	News, music
1200-1300	Relay of prgr. I
1300-1400	Radiostantsia Atlantika (R.St. Atlantic Ocean)
1400-1500	Radiostantsia Rodina
1430-1530	Radiostantsia Tikhiy Okean, as 0700
1600-1630	News, music
1630-1730	Radiostantsia Atlantika
1900-1930	News
1930-2030	Radiostantsia Tikhiy Okean, as 0700
2000-2100	Radiostantsia Rodina
2200-2230	News
2300-2330	News, music
2330-0030	Radiostantsia Rodina

2nd prgr (Mayak) is used as filler at various times.

RADIO MOSCOW
a) to March 5th – b) from March 6th.

TO EUROPE

Albanian	**m.b.**
1500-1530	25b,31b,41,49, 309a
1530-1600	25b,31b,41,49, 194a,210a
1630-1700	31,41,49,210
1830-1900	31b,41,49,210
1930-2000 / 2030-2200	41,49,210
Bulgarian	
1730-1830	31b,41,49,210
Czech/Slovak	
1400-1500	49,61
1500-1600	49,61,227, 1141(W)
1600-1800 / 1900-2000	49,61,257
Danish	
1700-1730	41,49
2030-2100	41,49,201
Dutch	
1730-1800	41,49
1930-2000	41,49
Finnish	
1630-1730	41,49,201
1830-1900	41,49,201
French	
1730-1800	31,41,49a
1800-1900	31b,41,49
1930-2000	31,49
2030-2100	31,41,49
2100-2130	31,41,49,227,257

German	**m.b.**
1000-1100	19,25,31,227 1141(W)
1100-1130	19,25,31,227 1141(Mon-Fri)
1600-1700	31,41,49, 217,227
1700-1730	41,49,227
1730-1830	31b,41a,49, 217,227
1930-2000	41,49,227
2000-2100	41,49,61, 217,227
2130-2200	41,49,217,227
Greek	
1600-1630	41,49,210a
1700-1730	31,41,49,210
1800-1830	41,49,257,348
1900-1930	41,49,210
2000-2030	41,49,210
2100-2130	41,49,309
2200-2230	41,49,210,217
Hungarian	
1800-1830	49,257
2000-2100	41,49,321
Italian	
1730-1830	41,49
1830-1900	41,49,217,227
1930-2130	41,49,194
Macedonian	
1800-1830	41,49,62, 257,321

Norwegian m.b.
1800-1830 41,49,201
1930-2000 41,49,201
2000-2030 49,201

Polish
1500-1600 31,41,49,217
1700-1730 31,41,49,217
1900-2000 41,49,217
2100-2130 41,49,61,217

Portuguese
1830-1900 31,41,49
1930-2000 31,41,49a
2000-2030 31,41,49
2100-2200 31,41,49

Rumanian
1600-1800 31a,41,49,337
1800-1900 41,49,194
1900-2100 41,49,337

Serbo-Croat
1630-1700 41,49,62,321
1700-1800 31,41,49,62,321
1800-1830 41,49,62,194
1900-1930 41,49,62,321
2000-2100 41,49,62,321

Slovene
1930-2000 41,49,62,321

Spanish
1800-1830 31,41a,49
1900-1930 31,41,49
2000-2100* 31,41,49

*incl. Catalan.
2030-2100 Tues/Thurs/Sat
2200-2300 31b,41,49,257

Swedish
1730-1800 41,49,201
1900-1930 41,49,201

TO AFRICA

Arabic m.b.
1830-1900 25b,31,41
2100-2130 31,41

Amharic
1000-1030 13,16,19
1530-1600 16b,19,25
1630-1700 31a

Bambara
1800-1830 25b,31,41
1900-1930 25b,31,41

French
0600-0615 16b,19,25,31
0630-0645 41
1600-1630 16b,19,25,31a
1700-1730 16b,19b,25,31,41
1800-1830 25b,31,41
1930-2000 25b,31,41
2000-2100 31,41
2100-2130 25b,31,41,49,321
2200-2230 25b,31,41,49,194

Foula
1730-1800 25b,31,41

Hausa
0615-0630 25b,31,41a
0645-0700
1730-1800 25b,31,41
1830-1900
1900-1930
2000-2030

Lingala
1800-1830 16b,19b,25,31

Malagasy
1530-1600 16b,19,25,31,
1700-1730 41a

Portuguese m.b.
0530-0600 16b,19,25,31,41
1700-1730 25b,31,41
1900-2000 25b,31,41a

N'debele
1530-1600 13b,16,19,25, 31a

Shona
1600-1630 13b,16,19,25

Somali
1500-1530 16b,19,25,31,
1600-1630 41a

Swahili
0330-0345 25,31,41
0430-0445 16b,19,25,31,41
1030-1100 13,16,19
1730-1800 16b,19,25,31, 41a
1800-1900 19b,25,31,41a
1900-2000 25,31,41a

Zulu
1730-1800 16b,19b,25,31

TO MIDDLE EAST

Arabic m.b.
0400-0430 25b,31,41,49
1230-1300 16b,19,25,31,41
1400-1430 16b,19,25,31, 41,49a
1530-1600 25,31,41,309a
1700-1730 25,31,41,49, 228,257
1730-1830 31,41,49,228, 259,309
1900-2100 31,41,49,228, 257,259,309

Dari
1300-1330 25,31,41,263
1500-1530 25,31,41a,263

Persian
0930-1000 19,25,31
1130-1200 19,25,31
1500-1530 25,31,41,348
1630-1730 31b,41,49,348
1830-1900 41,49,259,348

Pushtu
1330-1400 25,31,263
1630-1700 25b,31,41,263

Turkish
1030-1100 19,25,31,41
1330-1400 25,31,41,49a
1430-1500 25,31,41,49a, 309a
1530-1600 25b,31,41,49, 258a
1630-1730 41,49,309
1830-1900 41,49,257,309

TO SOUTH AND EAST ASIA

Assamese m.b.
1430-1500 25b,31,41a
1530-1600 25b,31,41a

Bengali
1100-1130 16,19,25,31,41a
1200-1230 16b,19,25,31
1300-1330 19,25,31
1400-1430 16b,25,31,41
1500-1530 25b,31,41a

Burmese
1030-1100 13b,16,19,25
1230-1300 16b,19,25,31
1430-1500 19b,25b,31,41a

Gujrathi
1230-1300 13b,19,25,31a
1400-1430 19,25,31,41

Hindi m.b.
1130-1200 19,25,31
1230-1300 25,31,41,49a, 232a
1400-1430 19b,25b,31,41, 49a,232
1530-1630 25b,31,41,49a, 232

Indonesian
0730-0800 13,16,19,25a
0930-1000 13,16,19,25a
1130-1230 13b,16,19,25a
1330-1430 16b,19b,25,31, 41a
1500-1530 19b,25,31,41

Kannada
1100-1130 16b,19,25,31a
1300-1330 19,25

Khmere
1000-1030 16,19,25,31a
1030-1100 16,19,25,31,41
1230-1300 19,25,31a

Laotian
1130-1200 16,19,25,31a
1330-1400 16b,19b,25, 31,41
1400-1430 19b,25,31,41a

Malayalam
1130-1200 16b,19,25,31a
1330-1400 16b,19,25,31,41

Marathi
1200-1230 13b,16b,19,25
1430-1500 25,31

Nepali
1230-1300 13b,16b,19,25, 31,41a

Oriya
1130-1200 16b,19,25b, 31a,41a
1330-1400 25b,31,41

Punjabi
1130-1200 16,19,25,31, 232a
1330-1400 16b,19b,25a,31 41,49a,232

Sinhalese
1500-1600 19b,25,31,41a

Tamil
1230-1300 16b,19,25
1400-1430 16b,19,25,31

Telegu
1200-1230 16b,19,25, 31a,41a
1430-1500 19,25,31,41

Thai
1100-1130 13b,16,19,25
1330-1400 19b,25,31,41a

Urdu
1200-1230 19,25,31,232a
1300-1330 19b,25,31,232
1430-1500 19b,25,31,41a, 232
1500-1530 19b,25b,31,41, 232
1630-1700 25b,31a,41,232

Vietnamese
1000-1030 19b,25,31,41
1100-1130 16,19,25,31,41
1130-1200 19b,25,31,41
1200-1230 16b,19b,25, 31,41
1300-1330 19b,25b,31,41
1400-1430 31,41
1430-1500 19b,25b,31,41

TO FAR EAST

Chinese m.b.
0000-0030 19b,25,31,41,49, 62,240,464,514
0100-0130 25,31,41,49,62, 240,514
0130-0200 19b,25,31,41, 49,62,240,514
0200-0230 19b,25,31,41, 49,62,240,464, 514
0300-0400 16b,19,25,31,49, 62,240,464,514
0430-0500 16,19,25,31,62, 240,464,514
0530-0600 16,19,25,31,62, 240,464,514
0630-0700 13b,16,19,25, 31a,62,240,464
0730-0800 13b,16,19,25, 31,41,62,464,514
0830-0900 13b,16,19,25,31, 41,62,514,464
0900-0930 16b,19,25b,31, 41,278a,395, 464,514
0930-1000 25b,31,41,514
1000-1030 25b,31b,41,49a 514
1030-1100 25b,31,41,49, 62,464,514
1130-1200 25b,31,41,49, 514
1200-1230 31,41,49,62, 464,514
1230-1300 25,31a,41,49, 62,464,514
1300-1330 31,41,49,62, 464,514
1330-1400 31,41,49,257, 278,375,514
1400-1430 31,41,49,62, 257,278,375, 464,514
1500-1600 31,41,49,62,203, 240,257,278,292, 375,464,514
1600-1700 31,41,49,62,203, 220,240,257,278, 292,375,464,514
1700-1730 41,49,203,220, 240,257,278,292, 375,464,514
1800-1930 31b,41,49,62, 203,220,240,257, 278,292,375,464, 514
2000-2100 31b,41,49,62, 203,220,240,257, 278,292,375,464, 514
2130-2200 31,41,49,62,240, 292,375,464, 514
2230-2330 31,41,49,62, 240,464,514

Japanese
0800-1100 25b,31a,41,49, 240,477
1200-1230 25b,31b,41,49,
1300-1330 240,477
1400-1430

Korean
2100-2130 31,41,49,62,464
2200-2230 49,62,464
0930-1030 19b,25,31a,41, 49a,62,464
1100-1130 41,49,62,464
1130-1200 25b,31b,41,49, 62,464
1330-1400 25b,31b,41,49, 62,240,464

TO FAR EAST

Mongolian	m.b.
0600-0650	16,19,25,31
0930-1000	16,19,41b,49, 257,278,375
1000-1030	41b,49,257,278,
1200-1245	375

TO LATIN AMERICA

Portuguese	m.b.
2200-2300	31,41
0000-0100	31,41

TO LATIN AMERICA

Quechua	m.b.
2300-2400	31,41

Spanish to South America

2230-2400	31,41
0000-0130	31,41
0200-0400	31,41

Spanish to Central America

2330-2400	31b,41,49
0000-0400	31b,41,49

PROGRAMMES IN ENGLISH

To Europe	m.b.
1130-1230	19,25,31
1900-1930	41,49
2000-2030	41,49
2100-2200	31b,41,49,201
2200-2230	31b,41,49,201, 227

To Africa

0345-0400	25,31,41
0445-0500	16b,19,25,31,41
1330-1400	13,16,19,25
1500-1530	13b,16,19,25, 31,41
1630-1700	16b,19,25,31,41a
1830-1900	25b,31,41,49
2000-2100	25b,31,41
2130-2200	25b,31,41
2230-2300	49,194,321

To Australia/New Zealand

0800-1000	16b,19,25,31a

To South East Asia

1000-1030	13b,16,19,25,31
1100-1130	16,19,31
1500-1530	19b,25b,31, 41,49a
1600-1630	25,31,41a

To North America

Prgr. I (East)

2230-2400	16,19,25,41,49
0000-0300	19,25,31,41,49
0300-0400	41,49

Prgr. II (West)

0330-0730	31,41,49a

REGIONAL STATIONS

RADIO BAKU

Arabic	m.b.
1530-1600	31,49
1630-1700	31,49,228

Azerbaidzhan

1330-1400	31,49
1830-1900	31,49

Iranian (Farsi)

1300-1330	31,49
1400-1500	31,49
1700-1715	31,49

Turkish

1500-1530	31,49
1600-1630	31,49
1900-1950	31,49

ANN: Azerbajan: "Danishir Baku". Arabic: "Huna Baku". Persian: "Inja Baku". Turkish: "Burasi Baku".

RADIO DUSHANBE

Farsi	m.b.
1530-1600	41,263
1800-1830	41,263

Tadzhik

1400-1500	41,263
1600-1630	41,263
1700-1730	41,263

RADIO KIEV

English	m.b.
1930-2000a	41,49
0030-0100b	19,25,31,41,49
0300-0330b	25,31,41,49

German

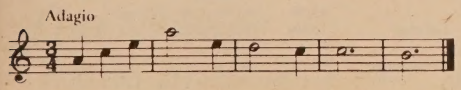
1730-1800b	41,49
1800-1830	41,49

Ukrainian

1800-1830a,d	41,49
2030-2100a	41,49
2200-2300b	19,41,49
2200-2400a	41,49
0330-0400b	41,49

a) to Europe; b) to North America; c) exc. Sat; d) Sat only.

INT-SIG:



ANN: "Havoryt Kiev". E: "This is Kiev". G: "Hier ist R. Kiev" – **V.** by letter or QSL-card.

RADIO MINSK

Belorussian	m.b.
1800-1830	41,49
2130-2200	41,49,257

RADIO RIGA

Latvian	m.b.
0830-0900 (Sun)	49,522
1930-2000 (Wed)	49,211,222,522
2103-2200 (Mon)	49,211,222,522
2130-2200 (Thurs)	49,211,222,522

Swedish	m.b.
0800-0830 (Sun)	49,522
2020-2050 (Tues/Thurs/Sat)	49,522
2130-2200 (Wed/Fri/Sun)	49,222,522

RADIO TALLINN

Estonian	m.b.
2135-2200	49,290

Finnish

0800-0915 (Sun)	49,290
0915-1000 (exc. Sun)	290

Finnish	m.b.
1005-1100 (exc. Sun)	290
1600-1630 (exc. Sun)	49,290

Swedish

2105-2135	49,290

ANN: Estonian: "Sünn Tallinn"; Finnish: "Täälla Tallinna"; Swedish: "Här är Tallinn" – **V.** by QSL-card and letter.

RADIO TASHKENT

Arabic	m.b.
1630-1700	31,41,49

English

1200-1230	31,41,49
1400-1430	31,41,49

Hindi

1300-1330	31,41,49
1500-1530	31,41,49

Farsi	m.b.
1600-1630	31,41,49

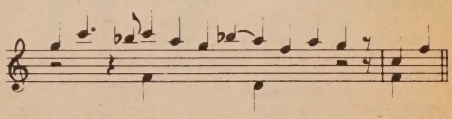
Urdu

1230-1300	31,41,49
1330-1400	31,41,49

Uzbek

1700-1800	31,41,49

ANN: "This is Tashkent Calling" – **INT-SIG:** Played on Chang (Uzbek nat. instrument), Violin and Cello.



V. by QSL-card – **PUB:** Prgr. schedule free.

RADIO VILNIUS

English	m.b.
2300-2330a (Sat/Sun)	19,25,31,41
0100-0130a (Sat/Sun)	19,25,31,41,49

Lithuanian	m.b.
2300-2330a (Mon-Fri)	19,25,31,41
0100-0130a (Mon-Fri)	19,25,31,41,49

a) to America. According to QSL the freqs 665, 1106, 1554kHz are also used for English.

RADIO YEREVAN

Arabic	m.b.
1500-1530a	49,60
1830-1900a	49,62,228

Armenian

0600-0730a (Sun)	60,347
0800-0900b (Sun)	19,25,41

Armenian	m.b.
1530-1630a	49,60,347
1800-1830a	49,60
1900-2100a	49,60,347
2030-2100b	41
0300-0330c,d	25b,31,41a,49a

a) to Near East; b) to Europe; c) to North America; d) exc. Mon/Wed/Fri.

RADIO STATION "PEACE AND PROGRESS"

Radio Station "Peace and Progress" belongs to Soviet public organizations and broadcasts to Europe, Asia, Australia, Africa, the Near and Middle East and Latin America.

ADDR: Radio Station "Peace and Progress", Moscow, USSR. **Te:** 2336465.

L.P: Editor-in-Chief: L. Talanov. Dir. of Prgrs: Y. Mitkin.

Schedules: October 76-April 77

TO EUROPE

German	m.b.
1900-1930	41,49,227

TO ASIA

English	m.b.
1030-1100	16,19,25, 31,41*
1130-1200	13**,16,19,25*
1230-1300	16**,19**,25, 31*
1300-1330	16**,19,25*,31
1330-1400	19,25,31,41*
1430-1500	19**,25,31,41
1530-1600	19**,25,31,41

Chinese (Peking dialect)

0930-1000	16,19,25,31
1200-1230	16,19,25,31
1300-1330	16**,19**,25,31*
1400-1430	19**,25,31*

Mongolian

1030-1100	41,49,257, 278**,375
1130-1200 1245-1315 1430-1500	41,49,257, 278,375

TO CHINA

Chinese (Peking dialect)	m.b.
0030-0100	19**,25,31,41, 49,62,240, 464,514
0230-0300	16***,19***,25, 31,41,49,62, 240,464,514
0400-0430	16,19,25,31, 62,240,464,514
0500-0530	16,19,25,31,62, 240,464,514
0600-0630	13**,16,19,25, 31*,62,240,464
0700-0730	13**,16,19,25, 31,62,464,514
0800-0830	13**,16,19,25, 31,41,62, 464,514
1100-1130	25**,31,41,49, 257,278,375,514
1430-1500	25,31,41,49, 62,203,464,514
1730-1800	41,49,203,220, 240,257,278, 292,375,464, 514
1930-2000	31,41,49,62, 203,220,240, 257,278,292, 375,464,514

Chinese (Peking dialect)

2100-2130	31,41,49,240, 278,292,375,514
2200-2230	31,41,49,240 292,375,514
2330-2400	31,41,49,62, 240,464,514

Chinese (Canton dialect)

0900-0930	13**,16,19,25, 31*
1000-1030	13**,16,19,25, 31*
1100-1130	16**,19**,25, 31*,41
1130-1200	16**,19**,25, 31*,41
1230-1300	19**,25,31*, 41,49

Chinese (Shanghai dialect)

0930-1000	13**,16,19,25, 31*
1030-1100	16**,19,25, 31*,41
1200-1230	19**,25,31, 41,49*

TO AFRICA

English	m.b.
1430-1500	13**,16,19,25, 31,41*

French

1630-1700	16**,19**,25,31

TO NEAR AND MIDDLE EAST

Arabic	m.b.
1630-1700	25,31,41,257

Hebrew

1730-1800	41,49,257

Yiddish

1600-1630	25**,31,41,49, 257

TO LATIN AMERICA

Creole	m.b.
2300-2330	31**,41,49

Guarani

0130-0200	31,41

Portuguese

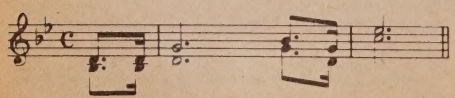
0100-0130	31,41

Spanish

0100-0130	31,41
0200-0230	31,41
0400-0430	31**,41,49

*) up to March 5. **) from March 6. ***)

ANN: E: "This is Radio Station 'Peace and Progress' the Voice of Soviet Public Opinion". F: "Ici l'emetteur 'Paix et Progrés', la voix de l'opinion publique sovietique". G: "Hier ist der Sender 'Frieden und Fortschritt'. P: "Fala a emissora 'Paz e Progresso'. Fala a emissora porta-voz de opinião publica soviética". Sp: "Transmite la Radioemisora de la opinión publica Soviética. Transmite la Radioemisora 'Paz y Progreso'" – **INT-SIG:** Two clarinets.



V. by QSL-card.

VATICAN CITY STATE

L.T: GMT+1h(Su: GMT+2h).

VATICAN RADIO (Rel.)

ADDR: Vatican Radio, Vatican City. **Cable:** Vatican Radio. **Te:** 6982. **Telex:** SCV 61031.
L.P: Dir.Gen: Rev. R. Tucci S.J. Dir.Prgr: Rev. J. Blajot S.J. Dir.N.Sce: Rev. F. Farusi S.J. Dir.Tec: Rev. S. Maffeo S.J. Chief Tr.Eng: M. Lemme. Chief Studio Eng: P.V. Giudici. Chief Secr: Dr. G.B. Romano.
STATIONS: Mediumwave: 1259kHz 5kW – 1529kHz 150/450kW. **FM:** 93.0MHz 0.25kW – 96.0MHz 5kW(stereo). **Shortwave:** 25/50/100kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
5995	7155	9615	11705	11790	15165	17840
6105	7235	9625	11715	11825	15200	17900
6165	7250	9645	11725	15120	17825	21485
6190	9605	9660	11740			

7 studios in Vatican City, 9 studios in Rome.

PROGRAMME SCHEDULE Nov. 76-Apr. 77.
a) Tues, Thurs, Fri, Sat, Sun; b) Mon, Wed, Thurs, Fri, Sun; c) not Sat; d) Mon, Wed, Fri; e) not Tues; f) Mon, Wed; +) Sun; ++) Sun & Holidays.
Behind frequencies in brackets: Antenna direction in degrees clockwise from true North.

TO EUROPE	Time	kHz/Beam
Albanian	1745c	6105/6190/7250(86),1529(nd)
Arabic	1730	7250/9645/11740(114),1529(nd)
Armenian	1815	7155/9625(54),11715(67), 1259(nd)
Bulgarian	1715	7250/9645(86),11740(89), 1529(nd)
Byelorussian	1745b	7155/9625(86),11715(13), 1259(nd)
Czech	1145	7160/9625(26),11715(13), 1259(nd)
	1845	6190(7250/9645(26),1529(nd)
English	1445	6190(340),7250/9645(326), 11740(319), 1529(nd)
	2030	6190/7250/9645(326),1529(nd)
French	1115	7160/9625(326),11715(319) 1259(nd)
	1430	6190(340),7250/9645(326), 11740(319),1529(nd)
	2015	6190(294),7250/9645(326), 1529(nd)
German	1130	7160(326),9625(354), 11740(355),1259(nd)
	1500	6190(340),7160(354),9625(26), 11825(13),1529(nd)
	1600Mon	7160(354),9625(26),11715(13)
	1930	6190/7250/9645(354),1529(nd)
Hungarian	1230	7160/9625(26),11715(49), 1259(nd)
	1830	6190/7250(26),9645(54), 1529(nd)
Italian	1115++	6190(340-160),9645(326), 1529(nd)
	1330	6190(340-160),7250/9645(326), 11740(107),1529(nd)
	1600Fri	6190(340-160),7250(326), 9645(354),1529(nd)
	1630	6190(114),7250/9645(326), 1529(nd)
	2045	6190(354),7250/9645(326), 1529(nd)
	2200	6190(354),1529(nd)
Latvian	1730e	7155/9625(26),11715(13), 1259(nd)
Lithuanian	0615+	9625(26),11715(13),1259(nd)
	1745Sat	7155/9625(26),11715(13), 1259(nd)
	1800	7155/9625(26),11715(13), 1259(nd)
Polish	1215	7150/9625(26),11715(49), 1259(nd)
	1515	6190(340),7250(354),9645(26), 11740(13),1529(nd)
	1915	6190/7250/9645(26),1529(nd)

RADIO STATION

PEACE AND PROGRESS

THE VOICE
OF SOVIET PUBLIC OPINION.

Our address:
Radio Station "Peace and Progress",
Moscow, U.S.S.R.

TO EUROPE	Time	kHz/Beam
Portuguese	1415	6190(340),7250/9645(266), 11740(269),1529(nd)
	2115	6190/7250/9645(266),1529(nd)
Rumanian	1700	7250/9645(54),11740(67), 1529(nd)
Russian	1245	7250/9645(54),11740(49), 1259(nd)
	1845	7155(26),9625(54),11715(67), 1259(nd)
Scandinavian	1730Tues	7155/9625(354),11715(355), 1259(nd)
	1915Wed	11715(355)
Serbo-Croat	1815	6105/6190(26),7250(54), 1529(nd)
Slovak	1200	7160/9625(26),11715(13), 1259(nd)
	1900	6190/7250/9645(26),1529(nd)
Slovene	1800	6105/6190(26),7250(54) 1529(nd)
Spanish	1400	6190(340),7250/9645(266), 11740(269),1529(nd)
	2130	6190/7250/9645(266),1529(nd)
Ukrainian	1830	7155/9625(54),11715(67), 1259(nd)
Angelus	1100++	6190(340-160),7250(26), 9645(326),11740(269), 15120(49),1529(nd)
Four voices	0700W	6190(340-160),9645(326), 1529(nd)
	1115W	6190(340-160),1529(nd)
H. Rosary	1945	6190(26),7250(326),9645(54), 1529(nd)
Liturgy		
Mass in Latin	0630	6190(340-160),7250(26), 9625(26),9645(326),11715(13), 11740(269),15120(49), 1259/1529(nd)
Biz. Rumanian	0715++	6190(340),7250(26),9625(54), 9645(326),11715(67), 11740(269),15120(49), 1529(nd)
Mass in Italian	0830++	6190(340-160),7250(26), 9645(326),11715(355), 11740(269),15120(49), 17840(112),1529(nd)
Oriental	0930++	6190(340-160),7250(26), 9645(326),11715(89), 11740(269),15120(49), 17840(89),1529(nd)
	1515+	7160/9625(54),11715(49), 1529(nd)
Concert	1530++	6190(340-160),7250(326), 9645(354),1529(nd)
	1600 Tues, Thurs	6190(340-160),7250(326), 9645(354),1529(nd)
Music	1200	6190(340-160),1529(nd)
	2230	6190(326),1529(nd)
TO AFRICA		
Angelus	1100++	17840(130),21485(170)
Arabic	1730	7250/9645(114),11740(121), 1529(nd)
	2145	6190/7250/9645(206),1529(nd)
English	1115W	17840(144),21485(139)
	1200W	17840(170),17900(193), 21485(170)
	1700	11830/15120(139),17900(130)
	2045	9625/11700/15120(175)
	2115	9625/11700(206),15120(193)
Ethiopian	1630	11830/15120(139),17900(130)
French	1100W	17840(144),21485(139)
	1145W	17840(170),17900(193), 21485(170)
	1645	9625(146),11700/15120(139)
	2030	9625/11700/15120(175)
	2100	9625/11700(206),15120(193)
Portuguese	1130W	17840/21485(170)
	2015	9625(146),11700/15120(175)
H. Rosary	1945	9625(146),11700/15120(175)

TO AMERICA	Time	kHz/Beam
Portuguese	2300	9615(234),11700/15200(229)
Spanish	2330	9615(234),11700/15200(229)
	0000	5995/9615(266),11700(269)
	0030	5995/6105/9605(294)
English	0100	5995/6105/9605(294) (for USA)
French	0115	5995/6105/9605(294)
TO ASIA		
Arabic	1730	7250/9645(114),11740(121), 1529(nd)
Chinese	2230a	7235/9615(54),11705(49)
English	1515W	9550/11875/15165(89) (for India and S.E. Asia)
	2230f	7235/9615(54),11705(49) (for Philippines)
Hindi, Tamil		
Malayalam	1505W	9550/11875/15165(89)
Japanese	2150d	7235/9615(54),11705(49)
TO AUSTRALIA/NEW ZEALAND		
English	2210	7235/9615(86),11705(89)

N. COMM: Italian 1330, Spanish 1400, Portuguese 1415, French 1430, English 1445, German 1500, Polish 1515.
FM PROGRAMMES: Stereo (96.5MHz): 1200-1400 Light music, 1700-1800 Classical music, 1800-1900 Light music, 1900-2100 Classical music: Mono (93.0MHz): 0630-2200 in parallel with European Sce.

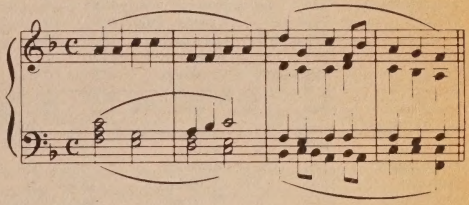
Tentative Schedule May-October 1977

TO EUROPE	Time	kHz/Beam
Albanian	1745c	6190/7250/9645(86),1529(nd)
Arabic	1730	7250/9645(114),11740(107), 1529(nd)
Armenian	1815	7155/9625(54),11715(67), 1259(nd)
Bulgarian	1715	7250/9645(86),11740(89), 1529(nd)
Byelorussian	1745b	7155/9625(26),11715(13), 1259(nd)
Czech	1145	7160/9625(26),11715(13), 1259(nd)
	1845	6190/7250/9645(26),1529(nd)
English	1345	6190(340),7250/9645(326), 11740(319),1529(nd)
	2030	7250/9645(326),11740(319), 1529(nd)
French	1115	7160/9625(326),11715(319), 1259(nd)
	1330	6190(340),7250/9645(326), 11740(319),1529(nd)
	2015	6190(294),7250/9645(326), 1529(nd)
German	1130	7160(326),9625(354), 11715(355),1259(nd)
	1400	6190(340),7160(354),9625(26), 11825(13),1529(nd)
	1600Mon	7160(354),9625(26),11715(13)
	1930	6190/7250/9645(354),1529(nd)
Hungarian	1230	7250/9645(26),11740(49), 1259(nd)
	1830	6190/7250(26),9645(54), 1529(nd)
Italian	1015++	6190(340-160),9645(326), 1529(nd)
	1230	6190(340-160), 7250/9645(326), 11740(107),1529(nd)
	1600Fri	6190(340-160),7250(326), 9645(354),1529(nd)
	1630	6190(114),7250/9645(326), 1529(nd)
	2045	6190(354),7250/9645(326), 1529(nd)
	2200	6190(354),1529(nd)
Latvian	1730c	7155/9625(26),11715(13), 1259(nd)
Lithuanian	0615+	9625(26),11715(13),1259(nd)
	1745Sat	7155/9625(26),11715(13), 1259(nd)
	1800	7155/9625(26),11715(13), 1259(nd)

TO EUROPE	Time	kHz/Beam
Polish	1215	7155/9625(26),11715(49), 1259(nd)
	1415	6190(340),7250(354),9645(26), 11740(13),1529(nd)
	1915	6190/7250/9645(26),1529(nd)
Portuguese	1315	6190(340),7250/9645(266), 11740(269),1529(nd)
	2115	7250/9645(54),11740(67), 1529(nd)
Rumanian	1700	7250/9645(54),11740(67), 1529(nd)
Russian	1245	7250/9645(54),11740(49), 1259(nd)
	1845	7155(26),9660/11740(49), 1259(nd)
Scandinavian	1730Tues	7155/9660(354),11740(355), 1259(nd)
	1915Wed	11715(355)
Serbo-Croat	1815	6105/6190(26),7250(54), 1529(nd)
Slovak	1200	7250/9645(26)11740(13), 1259(nd)
	1900	6190/7250/9645(26),1529(nd)
Slovene	1800	6105/6190(26),7250(54), 1529(nd)
Spanish	1300	6190(340),7250/9645(266), 11740(269),1529(nd)
	2130	7250/9645(266),11740(269), 1529(nd)
Ukrainian	1830	7155/9625(54),11715(67), 1259(nd)
Angelus	1000++	6190(340-160),7250(26), 9645(326),11740(269), 15120(49),1529(nd)
Four voices	0600W	6190(340-160),9645(326), 1529(nd)
	1015W	6190(340-160),1529(nd)
H. Rosary	1945	6190(26),7250(326),9645(54), 1529(nd)
Liturgy		
Mass in Latin	0530	6190(340-160),7250(26), 9625(26),9645(326), 11715(13),11740(269), 15120(49),1259/1529(nd)
Biz. Rumanian	0615++	6190(340),7250(26),9625(54), 9645(326),11715(67), 11740(269),15120(49), 1529(nd)
Mass in Italian	0730++	6190(340-160),7250(26), 9645(326),11715(355), 11740(269),15120(49), 17840(112),1529(nd)
Oriental	0830++	6190(340-160),7250(26), 9645(326),11715(89), 11740(269),15120(49), 17840(89),1529(nd))
	1515	7250/9645(54),11740(49), 1529(nd)
Concert	1430++	6190(340-160),7250(326), 9645(354),1529(nd)
	1600 Tues,Thurs	6190(340-160),7250(326), 9645(354),1529(nd)
Music	1100	6190(340-160),1529(nd)
	2230	6190(326),1529(nd)
TO AFRICA		
Angelus	1000++	17840(130),21485(170)
Arabic	1730	7250/9645(114),11740(107), 1529(nd)
	2145	6190/7250/9645(206),1529(nd)
English	1115W	17840(144),21485(139)
	1200W	17840(170),17900(193), 21485(170)
	1700	11830/15120(139),17900(130)
	2045	9625/11700/15120(175)
	2115	9625/11700(206),15120(193)
Ethiopian	1630	11830/15120(139),17900(130)
French	1100W	17840(144),21485(139)
	1145W	17840(170),17900(193), 21485(170)
	1645	11830/15120(139),17900(130)
	2030	9625/11700/15120(175)

TO AFRICA	Time	kHz/Beam
French	2100	9625/11700(206),15120(193)
Portuguese	1130W	17840/21485(170)
	2015	9625(146),11700/15120(175)
H. Rosary	1945	9625(146),11700/15120(175)
TO AMERICA		
Portuguese	2300	9615(234),11700/15200(229)
Spanish	2330	9615(234),11700/15200(229)
	0000	9615(266),11700/15200(269)
	0030	5995/9605(294),11700(301)
English for		
USA	0100	5995/9605(294),11700(319)
French	0115	5995/9605(294),11700(319)
TO ASIA		
Arabic	1730	7250/9645(114),11740(107), 1529(nd)
Chinese	2230a	9615(54),11705/15200(67)
English	1515W	11875/15165/17825(89) (for India and S.E. Asia)
	2230f	9615(54),11705/15200(67) (for Philippines)
Hindi, Tamil		
Malayalam	1505W	11875/15165/17825(89)
Japanese	2150d	9615(54),11705/15200(49)
TO AUSTRALIA/NEW ZEALND		
English	2210	9615(86),11705/15200(89)

N. COMM: Italian 1230, Spanish 1300, Portuguese 1315, French 1330, English 1345, German 1400, Polish 1415.
FM PROGRAMMES: Stereo (96.5MHz): 1100-1300 Light music, 1600-1700 Classical music, 1700-1800 Light music, 1800-2000 Classical music. Mono (93.0MHz): 0530-2200 in parallel with European service.
ANN: "Laudetur Jesus Christus, Praised be Jesus Christ. This is Vatican Radio". "Loué soit Jésus-Christ. Ici Radio Vatican". "Alabado sea Jesucristo. Transmite Radio Vaticana". "Slava Iisusu Khristu. Govorit Radio Vatikan" –
INT-SIG: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment.



YUGOSLAVIA

L.T: GMT+1h – **Pr.L:** Serbo-Croat, Slovenian; Macedonian – **E.C:** a/c 50, 220/880V (no).

JUGOSLOVENSKA RADIOTELEVIZIJA (Gov.)

ADDR: 70, Borisa Kidrica, 11000 Beograd. **Te:** 433-693, 433-647. **Cable:** Jurate, Beograd. **Telex:** 11 469 yu jurate, Beograd.
Jugoslovenska radiotelevizija: Pres.Adm.Board: M. Gvozdenov. Secr.Gen: Dr. Ivko Pustisek. Chief Foreign Rel: Mrs. O. Vojvodic. **Radio Programme Board:** Pres: A. Aleksijev. Secr: Dr. I. Pustisek. **Music Programme Committee:** Pres: D. Bojadzijev. Secr: D. Savic. **Technical Board:** Pres: S. Curapov.Secr: Eng. J. Saramandić. **Legal Committee:** Pres: B. Gligorijević. Secr: P. Tipsarevic. **Foreign Relations Committee:** Pres: F. Winter. Secr: O. Vojvodić.

Radiotelevizija Beograd: Hilendarska 2, 11000 Beograd. **Te:** 347-521. **Telex:** 11488 – Dir.Gen: M. Vukos. Dir. of Radio: B. Dadić. Dir.Tech: Eng. V. Zugić.

Radiotelevizija Zagreb: Jurisićeva 4, 41000 Zagreb. **Te:** 418-011. **Telex:** 21154 – Dir.Gen: F. Winter. Dir. of Radio: I. Krizmanić. Dir.Tech: Eng. P. Maricić.

Radiotelevizija Ljubljana: Tavcarjeva 17, 61000 Ljubljana. **Te:** 311-922. **Telex:** 31118 – Dir.Gen:: J. Vipotnik. Dir. of Radio: Marjan Javornik. Dir.Tech: Eng. J. Masnak.

Radiotelevizija Sarajevo: Danijela Ozme 7, 71000 Sarajevo. **Te:** 34-400. **Telex:** 41224 – Dir.Gen: M. Uzelac. Dir. of Radio: A. Filipović. Dir.Tech: Eng. B. Obradović.

Radiotelevizija Skopje: Dolno Nerezi, 91000 Skopje. **Te:** 50-205. **Telex:** 51157 – Dir.Gen: M. Matevski. Dir. of Radio: A. Aleksijev. Dir.Tech: Eng. J. Petrovski

Radiotelevizija Titograd: IV Proleterske Brigade 2, 81000 Titograd. **Te:** 22-423. **Telex:** 61133 – Dir.Gen: V. Popović. Dir. of Radio: V. Djurković. Dir.Tech: Eng. M. Ivancević.

Radiotelevizija Novi Sad: Zarka Zrenjanina 3, 21000 Novi Sad. **Te:** 57-033. **Telex:** 14127 – Dir.Gen: M. Gvozdenov. Dir. of Radio: T. Minda. Dir.Tech: Eng. L. Franciskovič.

Radiotelevizija Pristina: Zejnel Ajdina 12, 38000 Pristina. **Te:** 26-255. **Telex:** 18134 – Dir.Gen: I. Bajra. Dir. of Radio: S. Dimić. Dir.Tech: Eng. B. Djinali.

MEDIUMWAVES

SERBIA: Main and relay stations

	kHz	kW		kHz	kW
Belgrade 1	683	* 1000	Pirot	1151 c	1
Nis	926 a	20	Mladenovac	1196 d	0.2
Belgrade 2	1007 b	200	Vranje	1295 e	10
Aleksinac 2	1007 b	200	Svetozarevo	1457 f	10
Novi Pazar	1061 c	1	Beograd 202	1502	6

*) to be increased to 2000kW.
a) rel. Belgrade II/III+reg. prgr – b) screened towards Hilversum II – c) rel. Belgrade I+reg. prgr – d) rel. Belgrade 202+reg. prgr – e) rel. Belgrade I – f) rel. Belgrade II/III+reg. prgr.

2nd Prgr. after sign-off relays 3rd prgr.

Local stations

	kHz	kW		kHz	kW
Smed. Palanka	710	0.2	Titovo Uzice	1106	10
Arandjelovac	773	0.1	Bor	1286	10
Sabac	791	10	Valjevo	1295	10
Krusevac	836	10	Loznica	1340	10
Kragujevac	962	10	Smederevo	1376	1
Cacak	980	10	Vr. Banja	1385	0.05
Trstenik	1025	0.05	Zajecar	1439	1
Leskovac	1043	1			

VOJVODINA	kHz	kW	**Local stations**	kHz	kW
Novi Sad 2	1088	20	Vrbas	1304	2
Novi Sad 1	1268	150	Sombor	1403	10
Subotica	1205	2.5	B. Palanka	1430	1
Novi Sad 2	1484	6	B. Topola	1430	1

+20 low power sts (0.15-0.05kW).

KOSOVO	kHz	kW	**Local stations**	kHz	kW
Pristina 2	1070	10	Prizren	620	2
Pristina 1	1412	100	Gnjilane	782	2
Peć	*1484	2	Djakovica	1538	2
			Urosevac	1586	1

*) relays Pristina 1.

CROATIA	kHz	kW		kHz	kW
Ogulin	593	1	Djurdjevac	1016	1
Drnis	602	1	Zagreb III		
Kutina	602	1	(R.Sljeme)	1061	7
Rijeka	602	2	Zupanja	1061	1
Tovarnik II/III i)	647	20	B.Manastir II	1079	1
Varazdin	647	1	B.Ostarije	1124	20
Zagreb II/III	710	25	Osijek I j)	1124	2
SI.Brod	737	2	**Zagreb I**	1133	135
Ucka II/III i)	737	20	Ucka I j)	1133	20
Karlovac II	782	1	Hvar I j)	1133	50
Sibenik	773	2	Dubrovnik I j)	1133	2
Split II/III i)	782	2	Tovarnik I j)	1133	300
Vukovar	863	1	Zadar I j)	1142	2
Sisak 2	863	1	Pula I j)	1142	2
Knin	863	2	Cazma	1205	1
Daruvar	890	1	Krapina I	1304	1
Virovitica	926	1	Zabok	1340	1
Gospic II	926	1	Osijek II	1412	2
Orahovica	944	1	Zadar II	1439	10
Petrinja	953	1	Pula II	1484	2
Delnice	962	1			
Dubrovnik II/III i)	1493	2	Buje j)	1493	2

i) rel. Zagreb II/III – j) rel. Zagreb I.
+39 low power sts (0.3-0.01kW)

SLOVENIA	kHz	kW		kHz	kW
Maribor	557	20	Celje	1484	2
Ljubljana I	917	200	Murska Sobota	1493	2
Koper I	1079	100	S.Jelsah	1554	2
Koper II k)	1169	6	Trbovlje	1594	1
Ljubljana II/III	1484	2			

k) rel. R. Ljubljana I.
+15 low power sts (0.15-0.05kW).

BOSNIA/HERZEGOVINA

	kHz	kW		kHz	kW
Sarajevo I	611	600	Bugojno	1394	1
Sarajevo II/III	746	100	Gorazde	1394	1
Bijeljina	953	2	Bihac	1457	2
Banja Luka	1070	25	Banja Luka	1484	2
B.Novi	1079	1	Sarajevo 202	1484	2
Zenica	1124	2	Livno	1502	2
Mostar	1205	2	Trebinje	1502	2
Brcko	1286	2	Doboj	1594	0.1
Tuzla	1385	2			

+29 low power sts (0.1-0.005kW).

MACEDONIA	kHz	kW		kHz	kW
Skopje I	809	1000	Gostivar	1484	2
Strumica	1313	10	Skopje II	1511	20
Bitola	1322	10	Gevgelija	1538	10
Titov Veles	1340	0.5	Ohrid	1546	10
Kumanovo	1457	0.75			

+19 low power sts (0.15-0.08kW).

MONTENEGRO	kHz	kW		kHz	kW
Ivangrad	602	1	**Titograd**	881	100
Niksic	602	2	Pljevlja	1376	10
Rozaj	778	1	Kotor	1493	0.05
B. Polje	800	1			

FM: °)=stereo.

SERBIA	MHz	kW
Ovcar I	88.1	50
Belgrade I	88.9	1
Jastrebac II	°89.3	50
Crni Vrh I	89.7	40
Subotica II	88.9	5
Ovcar II	°90.1	50
Kopaonik II	90.9	50
Pirot I	91.3	10
Belgrade II	°92.5	1
Goles II	92.5	4
Subotica I	92.5	5
Tupiznica I	92.5	5
Kopaonik I	93.7	50
Crveni Cot I	94.5	50
Avala I	95.3	50
B.Kobila I	95.3	1
Tupiznica II	°96.1	5
Crveni Cot II	°96.5	50
Jastrebac I	96.9	50
Avala II	°97.7	50
Pirot II	98.5	15
R. Belgrade 202	°98.5	1
Crni Vrh II	°99.3	40
Goles I	99.7	4
Deli Jovan 1	101.7	1
Deli Jovan 2	103.5	1

+20 low power sts not mentioned.

VOJVODINA	MHz	kW
Novi Sad 1	90.5	50
Novi Sad 2	87.7	50
Novi Sad 3	100.0	4

+2 low power sts not mentioned.

KOSOVO	MHz	kW
Goles	95.7	30
Pristina	98.7	0.25

CROATIA	MHz	kW
Pljesevica I	87.7	15
Pula I	88.1	5
Zagreb IV	88.1	1
Srdj I	88.9	15
Kalnik I	89.7	15
Biokovo I	89.7	80
Pljesevica II/III	°90.5	15
Labistica I	91.3	15
Sljeme I	92.1	60
Belje I	93.3	15
Celevac I	95.1	80
Labistica II/III	°96.1	15
Kalnik II/III	°96.1	15
Ucka II/III	°96.9	80
Psuni I	97.3	80
Celevac II/III	°98.1	80
Belje II/III	°98.1	15
Sljeme II/III	°98.5	60
Srdj II/III	°98.5	15
Biokovo II/III	°98.9	80
Ucka I	99.3	80
Psunj II/III	°99.7	80

+21 low power sts not mentioned.

SLOVENIA	MHz	kW
Pohorje I	88.5	7.5
Plesivec II/III	°90.1	7.5
Krvavec II/III	°91.8	100
Plesivec I	92.5	7.5
Nanos II/III	°92.9	10
Kum I	94.1	30
Nanos I	95.3	10
Stol II	96.4	2.5
Pohorje II/III	°96.9	7.5
Beli Kriz I	97.7	1.5
Mirna Gora I	97.7	2.5
Kravavec I	98.9	100

SLOVENIA	MHz	kW
Kum II/III	°99.9	9
Stol I	100.1	0.5
Nanos	101.1	3

MACEDONIA	MHz	kW
Crni Vrh I	97.3	1
Crni Vrh II	94.1	1
Pelister II	94.7	1
Popova Sapka II	98.9	1
Turtel II	99.7	1

BOSNIA/HERCEGOVINA	MHz	kW
Bjelasnica II	94.5	0.6
Vlasić I	89.3	100
Vlasić II/III	97.1	10
Velez I	97.3	3
Velez II/III	91.7	3
Pljesivica I	92.9	7

MONTENEGRO	MHz	kW
Bjelasica	92.1	1
Lovcen	94.9	1
Titograd	96.1	1.2

BOSNIA/HERCEGOVINA	MHz	kW
Hum I	95.7	3
Hum II/III	87.7	1
Bjelasnica I	98.1	1

+2 sts of 0.02kW not mentioned.

HOME SERVICE

R. Beograd I. W 0300-2305(Fri/Sat/Sun 24h). **N:** W 0303, 0330, 0400, 0430, 0500, 0540, 0700, 0800, 0900, 1000, 1100, 1200, 1300, 1400, 1600, 1700, 1830, 2100, 2200, 2300; Sun 0403, 0500, 0530, 0600, 0700, 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1830, 2000, 2200, 2300.
R. Beograd II: W 0400-1900(Sun 0600-1900). **N:** W 1130, 1230, 1330, 1500, 1850. Sun 0630, 0730, 0930, 1055, 1130, 1330, 1730, 1850.
R. Beograd III: 1900-2308(Serious prgr).
R. Beograd 202: 0500-2300(non-stop light and pop. musical prgr).
R. Zagreb I: 0330-2300(Sat 24h; Sun 0330-2310).
R. Zagreb II: 0600-2000.
R. Zagreb III: 2000-2300(serious prgr).
R. Ljubljana I: 0330-2300.
R. Ljubljana II: W 1100-1900(Sun 0830-2300).
R. Ljubljana III: 1900-2300(serious music).
R. Sarajevo I: 0400-2400.
R. Sarajevo II: W 1100-1900.
R. Sarajevo III: 1900-2300(serious music).
R. Sarajevo 202: W 1100-1700.
R. Skopje I: D 0400-2300.
R. Skopje II: 1100-1830.
R. Titograd: 0400-2200.
R. Novi Sad I: 0400-2305.
R. Novi Sad II: 0400-1900.
R. Novi Sad III: 1500-1600.
R. Pristina I: 0400(Sun 1430)-2305.
R. Pristina II: D 1200-1700.

STUDIO B, BEOGRAD (Local Station)

ADDR: P.O. Box 10, 11001 Belgrade.
STATIONS: 1349kHz 10kW – 899kHz 2kW – 99.1MHz 1kW(stereo). 107.2MHz 0.05kW.
1st Prgr. (non-stop entertainment and commercials): W 0400-2200 on 1349kHz+99.1MHz; (Fri/Sat/Sun: 24h).
2nd Prgr. (news with domestic light and folk music): W 1200-1700 only on 899kHz+107.2MHz.
There are 185 local sts in Yugoslavia: Serbia 24, Croatia 72, Slovenia 16, Bosnia/Herzegovina 28, Macedonia 25.

STUDIO KOPER (R. Ljubljana) RADIO CAPODISTRIA

ADDR: P.O. Box 117, 66000 Koper-Capodistria.
L.P: Dir.Radio: M. Kocjan.
STATIONS: 1079kHz 100kW + **FM:** 89.3/97.7/101.1MHz 0.25/1/1kW.

HOME SERVICE

Slovenian: 0330-0515(rel. R. Ljubljana), 0515-0600(local prgr), 1600-1830(local prgr), 1830-1900(rel. R. Ljubljana); 2200-2300(rel. R. Ljubljana).
Italian: 0600-1600(local prgr), 1900-2200(local prgr).
N: Slovenian: 0300, 0430, 0530, 1630, 1830, 2230.
Italian: 0630, 0930, 1130, 1330, 1530, 1930, 2130.

ANN: Slovenian: "Ovde Radiotelevizija Koper". Italian: "Qui e Radio Capodistria" – **V.** by QSL-card. IRC appreciated, but not necessary.

FOREIGN SERVICE

SHORTWAVES: Beograd (G.C: 20.09E/44.30N).

kHz	kW	kHz	kW	kHz	kW	kHz	kW
6100	100	7200	50	9505	10	11735	10/100
6150	10	7240	10	9620	100	15240	100

Albanian	kHz
1400-1430	6100,7240, 9620
2130-2200	881

Arabic	kHz
1500-1530	6100,9620, 11735
1730-1800	6100,7240, 9620

Bulgarian	kHz
1300-1400	926(Sun)
1430-1500	926(W)
1800-1830	6100,7240, 9620

English	kHz
1530-1600	9620,11735, 15240
1830-1900	6100,7240, 9620
2000-2030	6100,7240, 9620
2200-2215	6100,7240, 9620

French	kHz
1600-1630	6100,7240, 9620
2215-2230	6100,7240, 9620

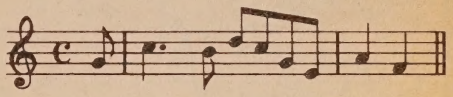
German	kHz
1630-1700	6100,7240, 9620
2030-2100	6100,7240, 9620

Greek	kHz
2100-2115	6100,7240, 9620

Russian	kHz
1430-1500	6100,7240, 9620
1700-1730	6100,7240, 9620
1900-1930	6100,7240, 9620

Spanish	kHz
2130-2200	6100,9620, 7240
0000-0030 / 0100-0130	7240,9620 11735

RELAY OF HOME SCE for countrymen living abroad:
R. Beograd I: 1400-2300 on 7200/9505kHz.
ANN: Home Service: "Here is Radiotelevision Beograd, ...Zagreb, ...Ljubljana, etc" – "Ovde Radiotelevizija Beograd, ...Zagreb, ...Ljubljana, etc." – **Foreign Service:** "This is Yugoslavia, R. Belgrade calling" – "Ici la Yugoslave, Belgrade vous parle". "Hier spricht R. Beograd" – **INT-SIG:** Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade).



V. by QSL-card. Re. to: Chief Editor of External Broadcasting, 2 Hilendarska, Beograd. Recordings accepted – **ALF:** Din 180,-

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GUINEA BISSAU
CONAKRY
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G.M.T.
G.M.T. +1
G.M.T +2
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DERNA
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KENYA
UGANDA
OMDURMAN
KHARTOUM
DEMOC. REP. OF
SUDAN
JUBA

AFRICA

AFARS & ISSAS

L.T: GMT+3h – **Pr.L:** French, Somali, Afar, Arabic.

FRANCE REGIONS 3 (FR3)

ADDR: B.P. 97, Djibouti. **Te:** 2894.
STATIONS (G.C: 43.00E/11.30N): all tr's 4kW 1169kHz – 1538kHz – 4780kHz.
HOME SCE: French: On 1169kHz: 0300 (Sun 0500) – 1930. **N:** W 0315, 0400, 0705, 0930, 1000, 1600; Sun 0530, 1000, 1600.
Somali/Afar/Arabic: On 1538/4780kHz: 0300-0600, 0900-2000 (Sun 0500-2000). **N. in Somali:** 0415, 0700, 1000, 1700. **N. in Afar:** 0345, 0600, 1200, 1900. **N. in Arabic:** 0515, 0800, 1500.
ANN: F: "Ici Djibouti, France Regions 3". Afar: "Ah Djibouti Radio". Arabic: "Houna Djibouti" – **V.** by QSL-card. Rp. Rec. acc.

ALGERIA

L.T: GMT – **Pr.L:** French, Arabic, Kabyl – **EC:** a/c 50, 127/220 and 220/380V (yes).

MINISTERE DES POSTES ET TELECOMMUNICATIONS,

Secretariat Général, 2 bis Blvd. Salah Bouakouir, Alger. **Cable:** Gentel.
L.P: Dir: M. Bougara.

RADIODIFFUSION-TELEVISION ALGERIENNE (Gov.)

ADDR: 21, Blvd. des Martyrs, Alger. **Te:** 602300. **Telex:** 91014.
STATIONS: Mediumwaves
Netw: A=Arabic, F=French, K=Kabyl, *=French/Arabic.

Location	kHz	kW	N	Location	kHz	kW	N
Tipaza	251	1500	*	Algiers I	980	200	A
Ain Beida	529	600	A	Batna	1016	1	A
Oran I (Les Trembles)	548	600	A	Souk-Ahras	1079	1	A
				Constantine I	1142	40	A
Touggourt	557	1	A	Constatine II	1304	40	F
Bechar	575	400	A	Oran II	1304	40	F
Michelet	692	4	K	Algiers III	1421	40	K

Shortwaves: Algiers: 4×50, 2×100, 2×120kW tr's (G.C: 03.11E/36.42N):

kHz	kW	P	Area	kHz	kW	P	Area
6045	100	A	Europe	9725	100		We.Africa
6145	50	A	Europe	11810	100	A	No.Ea.Africa
6160	50	K	Europe/We.Af.	11910	100	F	We.Africa
7195	50	A	Europe/We.Af.	15160	100	A	No.Ea.Africa
7245	50	F	Europe/We.Af.	15420	100		We.Africa
9510	50	F	Europe/We.Af.	17790	100	A	No.Ea.Africa
9610	100	A	So.Algeria	17825	100	A	We.Africa
9685	100	A	Ea.Africa	21565	100	A	No.Ea.Africa
9705	50	A	Algeria				

HOME SCE: Arabic Network: 1900-1800 on 529/548/980kHz, 0600-2400 on 1142kHz, 0000-0600 on 251kHz. **N:** 0630, 0700, 0730, 0800, 0900, 1000, 1100, 1200, 1300, 1500(W), 1600, 1700, 2000, 2200, 2300.
Kabyl Network: 0600-0900, 1200-1500, 1900-2200 on 692/1421kHz. **N:** 0730, 0800, 1200, 1300, 2000.
French Network: 0600-0900, 1200-1900(Sun 0600-1900) on 251/1304kHz. **N:** 0730, 0800, 0855(W), 0900(Sun), 1000(Sun), 1100(Sun), 1200, 1300, 1500, 1600, 1700, 1800.
Relays on Shortwaves:
Arabic: 0600-0903 on 6145/7195/9685/11810/15160/17825kHz, 0903-1800 on 7195/9685/9705/11810/15160/17790/17825/21565kHz, 1900-2400 on 6045(from 2200)/6145/7195/9685/11810/15160/17825(to 2200)kHz.
Kabyl: All times on 6160kHz.
French: 0600-0900 on 7245/11910kHz, 0900-1900 on 9510/11910kHz.
FOREIGN SCE
Voice of Palestine Revolution (Arabic): 1800-1900 on 529/692/980/1421/6145/6160/7195/7245/9685/11810/15160/17825kHz.
English: 1900-2000 on 251/1304/7245/9610/15420kHz.
French: 2000-2100 on 251/1304/7245/9510/9725/11910kHz.
Voice of the Free Sahara (Arabic/Spanish/French/Vernaculars): 2100-2200 & **Voice of the Free Canary Islands** (Spanish): 2200-2300 on 251/575/1304/7245/9610/11910/15420kHz.
Spanish: 2300-2400 on 251/1304/7245/9610/11910/15420kHz.
ANN: F: "Ici Alger Radiodiff, Télévision de la République Algerienne Democratique et populaire". Arabic: "Houna El Djazair. Idhaatou El Djamhouriati El Djazairiati El Demoukratiyati oua shaabi'yati" – **V.** by QSL-card.

ANGOLA

L.T: GMT+1h – **Pr.L:** Portuguese, +10 Vernaculars – **E.C:** a/c 50, 220/380V (yes).

DIRECÇÃO DOS SERVIÇOS DOS CORREIOS, TELEGRAFOS E TELEFONOS, Luanda

STATIONS: Mediumwaves: 2) Rlg, Comm.

	kHz	kW	Station and h. of tr.
1)	701	5	R. Nacional: 0500-2400
2)	944	10	R. Ecclesia: 24h
2)	1010	1	R. Ecclesia: 24h
1)	1088	100	R. Nacional: 0500-2400
1a)	1110	1	Em. Reg. do Cuanza Sul.
1b)	1115	5	Em. Reg. do Zaire
1c)	1160	10	Em. Reg. do Huambo
1)	1232	1	R. Nacional
1d)	1241	5	Em. Reg. da Lunda
1e)	1259	1	Em. Reg. do Cuanza Norte
1f)	1295	1	Em. Reg. do Uige
1g)	1313	1	Em. Reg. da Huila
1h)	1331	1	Em Reg. de Moçamedes
1i)	1405	1	Em. Reg. do Lobito: 0600-2300
1j)	1502	1	Em. Reg. de Benguela: 0500(Sun 0650)-2300
1k)	1586	5	Em. Reg. da Cabinda: 0530-2100
1c)	1594	1	Em. Reg. do Huambo
Shortwaves			
1c)	3345	10	Em. Reg. do Huambo
2)	3355	10	R. Ecclesia: 1800-0800
1)	3375	10	R. Nacional: 0500-2400
1g)	3970	5	Em. Reg. da Huila
1)	4820	10	R. Nacional: 0500-2400
1d)	4860	5	Em. Reg. da Lunda
1b)	4885	5	Em. Reg. do Zaire
1l)	4896	1	Em. Reg. de Silva Porto
2)	4985	1	R. Ecclesia: 24h
1k)	5033	1	Em. Reg. da Cabinda: As MW
1j)	5042	1	Em. Reg. de Benguela: As MW
1c)	5060	10	Em. Reg. do Huambo
2)	7215	10	R. Ecclesia: 0800-1800
1)	7245	100	R. Nacional: 0500-2400
1)	9535	100	R. Nacional: 0500-1600

FM	MHz	kW		MHz	kW		MHz	kW
1l)	88.72	0.25	1j)	92.76	0.1	2)	97.49	0.2
1a)	90.4	0.01	1d)	93.5	1	1)	101.4	0.25
1g)	90.5	0.01	1)	96.6	1	1c)	105.0	0.01
1b)	92.5		1c)	97.0	1			

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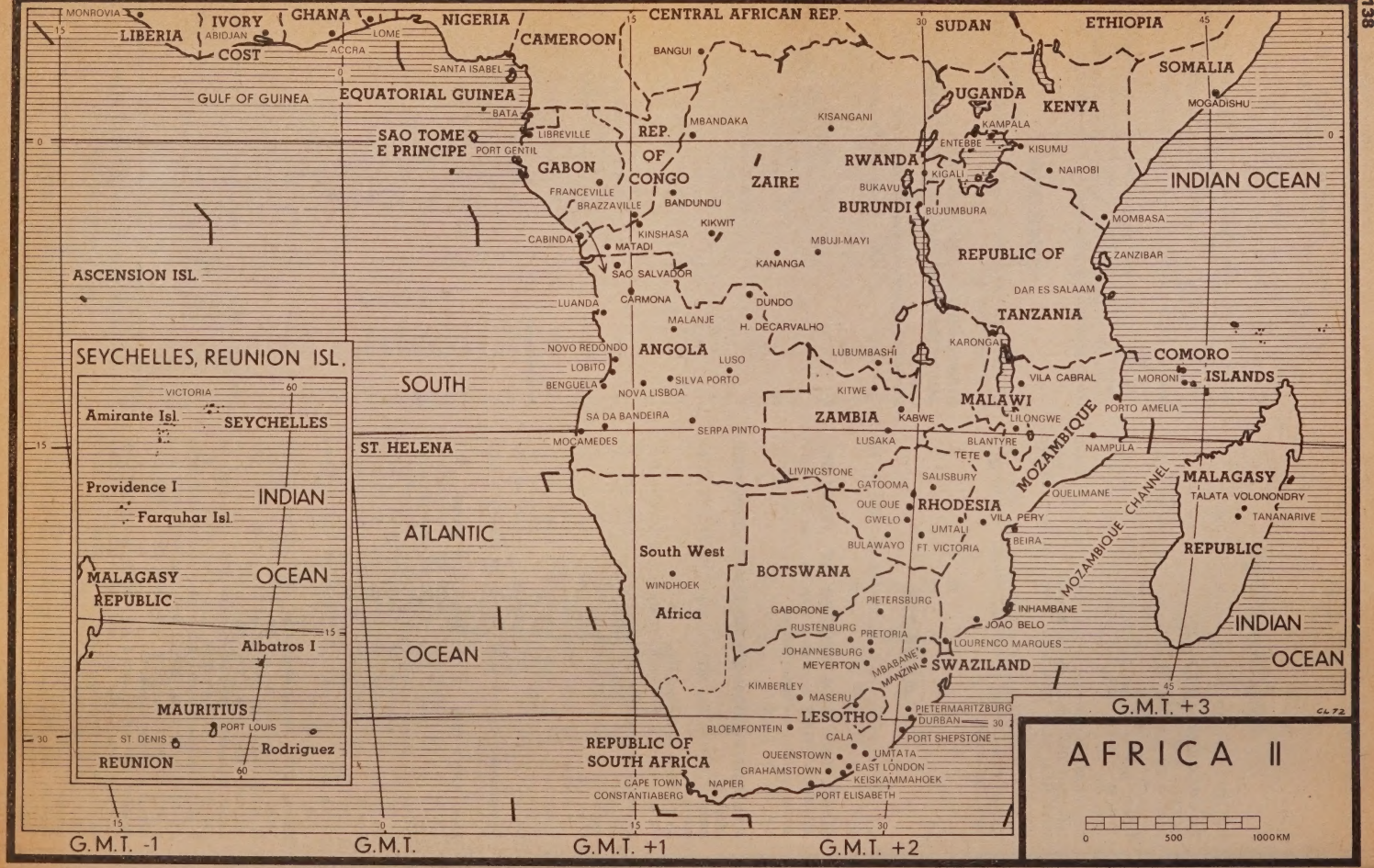
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Addresses and other information
1) C.P. 1329, Luanda. **Te:** 80499. **Prgrs** in Portuguese and Vernaculars. **N:** 0600, 0700(Sun, 0900, 1200, 1500, 1700, 1900, 2200, 2345. **French:** 1130-1200.
ANN: "De Luanda, capital da República Popular de Angola, transmiteu a Rádio Nacional em cadeia com todo rede nacional dos emissores". **French:** "Ici la Radiodiffusion Nationale d'Angola" – **INT-SIG:** Electronic music.
Regional Stations
1a) C.P. 10, Novo Redondo.
1b) São Salvador.
1c) C.P. 125, Huambo.
1d) Saurimo.
1e) Dalatando.
1f) C.P. 140, Uige.
1g) C.P. 111, Lubango.
1h) C.P. 174, Moçamedes.
1i) C.P. 56, Lobito. Rep. on 4175.
1j) C.P. 19, Benguelá.
1k) Cabinda.
1l) C.P. 33, Silva Porto.
2) C.P. 156, Luanda.
ANN: "R. Ecclésia, Emissora Catolica de Angola" – **INT-SIG:** Gong.

ASCENSION ISLAND (British)

L.T: GMT – **Pr.L:** English.

VOLCANO RADIO (Priv, Volunteer operated)
ADDR: Volcano Radio, Ascension Island, P.O. Box 4608, Patrick AFB, Fla. 32925, USA.
STATIONS: ZD8VR 1600kHz 1kW. **FM:** 92MHz 10W and 98.8MHz 50W.
D.PRGRS. in English: 24h (AFRTS material). **N.** 2200(BBC WS).
ANN: "This is Volcano Radio, ZD8VR, the Voice of the Ascension Island" – **V.** by letter.

RADIO ASCENSION (BBC operated)
Operated by the BBC Atlantic Relay for the benefit of residents.
ADDR: c/o BBC Atlantic Relay Station, English Bay, Ascension Island, South Atlantic.
STATION (English Bay): 1484kHz 0.2kW.
D.PRGRS. in English: 24h (relay BBC World Sce. exc. for occ. local prgrs).

BBC ATLANTIC RELAY
STATION: 4×250kW tr's for relays of BBC World Sce. as well as French, Hausa and Latin American Sce (Portuguese and Spanish).

kHz	kHz	kHz	kHz	kHz	kHz	kHz
6005	9580	9700	11770	11820	15105	15400
7105	9600	9765	11815	11860	15260	17840
7270	9695	11740				

Full details of tr's are included in the BBC schedule under Great Britain.

VOICE OF AMERICA RELAY STATION
ADDR: Voice of America, Washington DC 20547, USA.
STATION: Ascension 250kW; tr. is operated by the BBC.

kHz	Times	Area	Language
15195	1000-1100	Brazil	Portuguese
	1130-1400		
17830	1000-1100	So. Am.	Spanish
	1130-1400		

BENIN (People's Rep.)

L.T: GMT+1h – **Pr.L:** French, English+10 local languages – **EC:** a/c 50 220/380V (yes).

LA VOIX DE LA REVOLUTION POPULAIRE (Gov.)
ADDR: B.P. 366, Cotonou. **Te:** 2040.
STATIONS: Cotonou (G.C: 02.35E/06.21N):
*) Regional st. at Parakou.

kHz	kW		kHz	kW	
1475	1/50	all times	4870	30	see below
1578*	0.1	all times	7190	4	see below
1598	0.1	all times			

FM: 92.9 and 95.5MHz: both 0.05kW: all times.

HOME SCE: W 0515-0830, 1100-1330 (Thurs. Sat 2300), 1615-2300; Sun 0600-2300.
On 4870kHz: W 0515-0830, 1615 (Sat 1600)-2300. Sun 1630-2300. On 7190kHz: W 1100-1330 (Thurs 1615, Sat 1600), Sun 0600-1630.
N: French: 0615 (W), 0700 (Sun), 0800 (Sun), 1200 (Mon-Fri), 1240 (Sat), 1900, 2100. **English** 2035.

ANN: "Ici la Voix de la Révolution Populaire, Radiodiff. de la Rép. Populaire du Benin, émettant de Cotonou" – **INT-SIG:** Benin Tam-Tam – **V.** by QSL-card. Rp. Rec. acc.

BOTSWANA (Rep.)

L.T: GMT+2h – **Pr.L:** English, Setswana.

RADIO BOTSWANA (Gov.)
ADDR: P.O. Box 52, Gaborone. **Te:** 2365. **Cable:** Broadcasts.
L.P: Broadc. Officer: P. Molethe. Chief Eng: P.E. Johnson.
STATIONS (G.C: 25.58E/24.42S): 6 studios.

kHz	kW	kHz	kW	kHz	kW
971	50	4845	10	7295	10
3356	10	5965	10		

FM: 90.7MHz 0.05kW.
HOME SCE. in Setswana & English
Mon-Wed 0400-0630, 0900-1415 (School Term: 0400-1415), 1500-2100; Thurs-Sun 0400-2100 on 971kHz+FM.
Shortwaves

kHz	Mon-Wed	Thurs-Sun
3356*	0400-0630	0400-0530
	1500-2100	1450-2100
4845*	0400-0630	0400-0600
	1500-2100	1435-2100
5965	0900-1215a	0535-1445
7295**	0900-1215a	0605-1430

*) relay of 971kHz(May-Oct) – **) replaced by 4845kHz(May-Oct – a) during School term.

N. in Setswana: Mon-Fri 0500, 0900, 1115, 1400, 1600, 1900. Sat & Sun 1100, 1800.
N. in English: Mon-Fri 0510, 0600(BBC), 0905, 1125, 1405, 1610, 1905. Sat & Sun 0600(BBC), 1110, 1810.

ANN: E: "This is R. Botswana broadc. from Gaborone". Setswana: "Seromamowa sa Botswana" – **INT-SIG:** Cow Bells, Nat. Anthem at opening and closing – **V.** by QSL-card – **PUB:** Quarterly prgr. schedule.

BURUNDI (Rep.)

L.T: GMT+2h – **Pr.L:** Kirundi, Swahili, Ebembe, French. – **EC:** a/c 50, 220/380V (no).

DIRECTION DES TELECOMMUNICATIONS
B.P. 60, Bujumbura. **Cable:** Dirtel.
L.P: Dir: A. Kadende.

LA VOIX DE LA REVOLUTION (Gov.)
ADDR: B.P. 1900, Bujumbura. **Te:** 3742. **Cable:** Radiodiffusion.
STATIONS (G.C: 20.21E/03.23S):
1115kHz 1kW: all times.
3300kHz 25kW: 0330-0600, 1500-2100. (Sun 0330-2100).
6140kHz: 0330-0600 (Sun 1000) (10kW); 1000-2100 (25kW).
HOME SCE. in French, Kirundi, Swahili: W 0330-0600, 0900-1330, 1500-2100; Sat 0330-0600, 0900-2100; Sun 0330-2100.

N. in French: 0415, 1100, 1800, 2000, 2050. **N. in Kirundi:** 0400, 1040, 1700. **N. in Swahili:** 0430, 1120, 1730.
ANN: "Ici Bujumbura, Station de Radiodiffusion Nationale de la Republique du Burundi la Voix de la Révolution. Nous émettons dans les bandes de 49m soit 6140kHz, 90m soit 3300kHz chaine nationale et 269m soit 1115kHz chaine de Bujumbura".
INT-SIG: A Rundi (umuduli) vocal bow: This is an ordinary bow that is stretched over the tendon of an ox, fitted with a calabash bowl instead of a resonance box. This instrument produces a monotonous rhythmical tone consisting of two characteristic sounds – **V.** by QSL-card. Rec. acc.

RADIO CORDAC (Missionary Broadc. St.)

ADDR: B.P. 1140, Bujumbura. **Te:** 2503. **Cable:** Cordac.
L.P: St. Mgr. & Dir. of Inf: C.B. Kirkpatrick. Tech. Dir: J. Morris.
STATIONS: mw 0.25kW, sw 2.5kW (Nyakarago): 1400kHz – 3973kHz – 4900kHz.
FM: 92.6MHz.
HOME SCE: 0330-0515 (Sun 0730), 1000-1200, 1630-1930 (on all freq's).
English: 0500-0515 (W), 0645-0730 (Sun), 1630-1700 (Sun).
French: 0600-0645(Sun), 1830-1930. Other times in Kirundi, Swahili and Ebembe.

ANN: E: "This is R. Cordac Bujumbura, Burundi, the Central African Broadc. Co. Inc." – **INT-SIG:** "Jesus be praised" played on guitar – **V.** by QSL-card. Rec. accepted. Rp. **PUB:** "Skywaves" by-monthly in English. **F.PL:** 10kW from Nyakarago.

CAMEROON (Fed. Republic of)

L.T: GMT+1h – **Pr.L:** French, English, Vernaculars.

MINISTERE DE POSTES ET TELECOMMUNICATIONS

Direction des Telecommunications, Yaoundé.
Cable: Dirtelcam.
L.P: Secr. Gen: P. Kamga Njike.

RADIO YAOUNDE (Nat. st.)

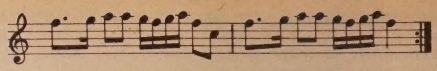
ADDR: B.P. 281, Yaoundé. **Te:** 221400. **Cable:** Radio Yaoundé.
STATION (G.C: 11.32E/03.51N):

kHz	kW	kHz	kW
998	10	4972.5	30
1286	1	7205	30

HOME SCE: 0500-0730, 1700-2300 on 998/1286/4972.5kHz, 1100(Sat/Sun 0700)-1700 on 998/1286/7205kHz.
French: 0600-0730, 1100-1300, 1845-2300 (Sat 0600-0700, 0900-1330, 1445-1700, 1845-2300). **English:** 0530-0600, 1300-1430, 1730-1845; Sat 0530-0600, 0700-0900, 1330-1445, 1730-1845; Sun 0530-0645, 1230-1445, 1730-1845. **Vernaculars:** W 0500-0530, 1430-1730 (Sat 1700-1730).
ANN: "Ici Yaoundé Radiodiff. de la République Unie du Cameroun, Poste Nationale". E: "This is Yaounde the Nat. Broadc. System of the United Republic of Cameroon" – **INT-SIG:** Local music on balafon – **V.** by QSL-card. Rp. Rec. in English, French.
F.PL: 3 mw & 1 sw-tr's of 20kW for Home Sce. and 3 × 100kW sw-tr's for an External Sce. before Feb. 1977.

RADIO DOUALA (Gov.)

ADDR: B.P. 986, Douala. **Te:** 426060. **Cable:** Radio Douala.
STATION (G.C: 09.41E/04.40N): 1106kHz 10kW.
HOME SCE. in French, English, Vernaculars
French: W 0500-0700, 1100-1430, 1700-2230; Sat 0500-0700, 1100-2330; Sun 0500-2300.
N. in English: 0545-0600 (W), 1400-1430 (W), 1830-1845 (W) – **Vernaculars:** Mon-Fri 0505-0545, 1700-1745.
N. in French: 0615 (W), 0700 (Sun), 1200 (Sat 1215), 1900.
ANN: F: "Ici Douala, station regionale de la Radiodiff. du Cameroun" – **INT-SIG:** At opening and close down and 1115 and 1700: Hymn of Cameroon: "O Comaroun berceau de nos ancètres" fanfare.



V. by QSL-card or letter. Rp.

RADIO GAROUA (Gov.)

ADDR: B.P. 108, Garoua. **Te:** 271167.
STATION (G.C: 13.25E/09.18N):

kHz	kW	Times
1348	1	All times
5010	30	0500-0700, 1700-2200
7240	4	1100-1300

HOME SCE. in French, English, Foulfouldé, Hausa, Arabic, Choa: 0500-0700, 1100-1300, 1700-2200.
French: 0530-0700, 1100-1240, 1600-1930; Sat 0530-0700, 1100-1230, 1445-1930; Sun 0500-1230, 1415-1930. **N:** 0615 (W), 0700 (Sun), 1200 (Sat), 1900. **Foulfouldé:** 0500-0520, 1240 (Sat/Sun 1230)-1430, 1930-2200. **Hausa:** 0520-0525, 2030-2045. **English:** 1830-1845.
ANN: "Ici Garoua Radiodiff. de la République Unie du Cameroun, Station Provinçiale" – **INT-SIG:** Flute and Tamtam – **V.** by QSL-card. Rp.

RADIO BUEA (Gov.)

ADDR: P.O. Box 86, Buea. **Te:** 326225. **Cable:** Radio Buea.
L.P: St. Mgr. Ngiewih Asunkwan. Asst. Mgr. A. Ayongo. Tech. Dir: G. Nitchen (low freq's), A. Nsima (high freq's). Dir. of Prgr's: J. Ndahne.
STATIONS: (G.C: 09.14E/04.09N): 3970kHz 8kW – 6005kHz 4kW.
HOME SCE. in English, French and Cameroon Languages: On 3970kHz: 0430-0800 (Sun 0645), 1630-2200. On 6005kHz: 1100-1630.
N: French/English (relayed from Yaounde): 0500, 0600, 0700, 1200, 1400, 1830, 1900. **Local N: English:** 0545, 0645, 1445, 1730, 2030.
ANN: E: "This is Buea, a Provincial Station of R. Cameroon". F: "Ici Buea, Station Provinçiale de Radio Cameroun" – **V.** by QSL-card.

CANARY ISLANDS (Spanish)

L.T: GMT – **Pr.L:** Spanish – **E.C:** a/c 50, 110/220V (no).

STATIONS: Mediumwaves
All sts comm. exc. 1)(Gov.), 4), 8)(Cultural), 9)(Rlg)

	kHz	kW	Call	Station and h. of tr.
1)	620	100		R. Nac. de España: 24h
7)	836	10	EAK35	R. Pop. de las Palmas: 0500-0100
4)	872	20	EFJ57	R. Juv. de Canarias: 0700-2400
6)	953	10	EAJ50	R. Las Palmas: 0700-0100
9)	1025			R. Catedral
5)	1097	20	ECS4	R. Atlantico: 0655-0100
3)	1133	20	EAK64	R. Pop. Tenerife: 0700-2400
8)	1268	10	EAK92	R. Ecca: W 0700-2330, Sun 0830-2100
10)	1385	2	ECS16	LV de la Isla de la Palma: 0800-2300
2)	1412	10	EAJ43	R. Club Tenerife: 0700-2400

Shortwaves:

1)	11800	50	R. Nac. de España: 1955-0500
1)	15365	50	R. Nac. de España: 1955-0500

FM	MHZ	kW	Station and h. of tr.
5)	88.7	1	R. Atlantico: 0655-0100
10)	89.15		LV de la Isla de la Palma: 0800-2300
1)	90.0	5	R. Nac. de España: 0700-2400
8)	90.4	1	R. Ecca: W 0700-2330, Sun 0830-2100
11)	90.7		R. Lanzarote: 0700-2400
7)	91.8	1	R. Pop. de las Palmas: 0500-0100
2)	93.2	1	R. Clube Tenerife: 0700-2400
4)	93.9	0.25	R. Juv. de Canarias: 0700-2400
3)	97.15	1	R. Pop. Tenerife: 0700-2400

Addresses and other information
1) San Martin 1, Santa Cruz de Tenerife. **Te:** 246788. **Station:** Las Mesas (G.C: 16.15W/28.28N). **D. Prgr: 1st**

Prgr: 620kHz. **N:** On the h (exc. 1300, 1400, 2200, 2300); also 1330, 2330 (relayed by all private sts exc. ECCA). **2nd Prgr:** 90MHz (Musical, Cultural and Comm). **SW:** relay Madrid for Latin America.
Ann: "R. Nacional de España en Canarias, Centro Emisor del Atlántico" – **Int-Sig:** "Marcha de la Generala" – **V.** by QSL-card. Re. to RNE, Madrid.
2) Suárez Guerra 43, Santa Cruz de Tenerife. **Te:** 243542 – **L.P:** Dir: Félix Alvaro Acuña Dorta. Dir.Adm: Ruperto J. Carrillo Tejera.
Ann: "Aqui R. Club Tenerife, EAJ43, emisora decana de la Islas Canarias en Santa Cruz de Tenerife" – **Int-Sig:** "Islas Canarias" – **V.** by letter.
3) Calle Rey Redondo 49, La Laguna, Tenerife.
Ann: "R. Popular de Tenerife, Emisora Diocesana de Tenerife, La Laguna".
4) General Morales 1, Santa Cruz de Tenerife. **Te:** 275916. **D.Prgr:** Including **German** ("R. Maritim"): 0830-0900, 1830-2000 – **Ann:** "R. Juventud de Canarias" – **Int-Sig:** The first notes from "Tierra Canaria" – **V.** by letter.
5) General Franco 21, Las Palmas, Gran Canaria.**Te:** 218107. **D.Prgr: N:** 0845, 1200, 1330*, 2100* (*=relay RNE). Prgrs in Swedish/German/English (for tourists, produced by Xavier Palin): W 0900-1000, 1900-2000. **Ann:** "Transmite R. Atlantico, ECS no. 4, Emisora Sindical de las Palmas de Gran Canaria, Islas Canarias". **Int-Sig:** Canary guitar chords – **V.** by QSL-card or letter. Rec. acc.
6) Av. Rafael Cabrera 10, Las Palmas de Gran Canaria. **Te:** 215063. **D.Prgr: N:** 0800, 0830, 0930, 1330*, 1430, 2100*, 2115 (*=relay RNE). **Ann:** "Transmite EAJ50, R. Las Palmas" – **Int-Sig:** Pasodoble "Islas Canarias".
7) Ap. 744, Las Palmas, Gran Canaria. **Te:** 255840. **Ann:** "R. Popular, Las Palmas" – **Int-Sig:** Piano – **V.** by letter.
8) Ap. 994, Las Palmas, Gran Canaria. **Te:** 261212. **Ann:** EAK92, R. ECCA, Emisora Cultural de Canarias" – **V.** by letter.
9) Plaza de Santa Ana, Las Palmas, Gran Canaria. **D.Prgr:** Reported Sun 1000 with relay of Mass.
10) Diaz Pimienta 1, Santa Cruz de la Palma. **Te:** 411549. **Cable:** Voz Isla Palma. **D.Prgr: N:** 0910, 1210, 1330*, 1415, 2100* (*=relay RNE). **Ann:** "La Voz de la Isla de la Palma, Emisora Sindical, Santa Cruz de la Palma" – **Int-Sig:** "La Origa Dorada' (Military March) – **V.** by letter. Rec. acc.
11) Edif. Mejico 1, Calle Fred Olsen, Arrecife, Lanzarote.

CAPE VERDE ISLANDS

L.T: GMT+2h – **Pr.L:** Portuguese, Creole.

Santiago (Island)

RADIO CLUBE CABO VERDE (Pr.)

ADDR: C.P. 26, Praia. **Te:** 344. **Cable:** Radio Clube.
STATIONS: (G.C: 23.30W/14.55N): 3885kHz 5kW – 6025kHz 0.5kW – **FM:** 98.0MHz 0.05kW.
HOME SCE. in Portuguese: 0745-0945, 1415-1615 on 6025kHz, 0745-0945, 2000-2400 on 3885kHz.
N.Wrp: 2215.
ANN: "Aqui Praia, Estação de ondas curtas e FM do R. Clube de Cabo Verde" or "Voz do Praia" – **INT-SIG:** Five notes on Marimba – **V.** by QSL-card.

S. Vicente (Island)

R. BARLAVENTO (Priv.)

ADDR: C.P. 29 S. Vicente.
STATIONS: CR4AC 3930kHz 10kW – 7155kHz 10kW.
HOME SCE: Mon-Fri 0700-0830, 1500-1630, 2030-0100; Sat 1600-0100; Sun 1100-1400, 1600-0100.
N: 1100(Sun), 2400.
INT-SIG: Gong and "Force de cretcheu" (folklore) on guitar – **V.** by QSL-card. Rp.

RADIO CLUBE MINDELO (Gov.)

ADDR: C.P. 101, S. Vicente. **Te:** 2476.
L.P: Dir. Gen: E. de Matos. Mgr: A. Morais. Dir. Tec: C. Brito. Dir. Prgr: J. Pereira.
STATION: CR4AB 4721kHz 1.5kW.
HOME SCE: 0830-0930, 1415-1515, 2000-2200.
V. by QSL-card. Rp.

CENTRAL AFRICAN REPUBLIC

L.T: GMT + 1h – **Pr.L:** Sango, French – **E.C:** a/c 50 (yes).

RADIODIFF. NATIONALE CENTRAFRICAINE (Gov.)

ADDR: B.P. 940, Bangui. **Te:** 2355.
STATIONS (G.C: 18.35E/04.21N):

1570kHz	1kW:	all times
*5035kHz	100kW:	0430-0730, 1630-2300
7220kHz	100kW:	0730-1630.

FM: 87.78MHz: all times.
*) Mostly reported on 5038kHz.
HOME SCE: 0430-0730, 1100-1400 (Mon-Wed 1630), 1630-2230 (Fri-Sat 0430-2300).
N. French: 0530, 1145, 1830. **N. in Sango:** 1715.
N. in English: 2030-2045.
ANN: F: "Ici La Radiodiff. Nationale Centrafricaine qui émet de Bangui". Sango: "Ndoso Bangui kota kodro ti République Centrafricaine" – **INT-SIG:** National Anthem and St. Sylvestre – **V.** by letter.

CHAD (Republic of the)

L.T: GMT + 1h – **Pr.L:** French, Arabic + 7 local languages – **EC:** a/c 50 (no).

RADIODIFFUSION NATIONALE TCHADIENNE (Gov.)

ADDR: B.P. 892, N'djamena. **Cable:** Radio Tchad.
L.P: St. Dir: D.T. Nayo. Dir. Tec: N. Dabade.
STATIONS: (G.C: 15.03E/12.088N)

kHz	kW	kHz	kW	kHz	kW
1169	20	4904.5	100	7120	100

HOME SCE: On 1169kHz at all times. 0430-0630 on 4904.5kHz: 1100 (Sun 0630)-1800 on 7120kHz; 1800-2200 (Sat 2300) on 4904.5kHz – **L.L:** English Mon-Fri 1850.
NEWS: French: 0430, 1230, 1900, 2115. **Arabic:** 0540, 1730, 2120.
ANN: "Ici Ndjamana, Radiodiff. National Tchadienne émettant dans les bandes . . ." or "Ici N'djamena, La Voix de l'Unite et Progres, Radiodiff. Nationale du Tchad" – **INT-SIG:** Balafon – **V.** by QSL-card Rp. Rec, acc – **PUB:** Prgr. sched. (weekly).

COMORO ISLANDS

L.T: GMT+3h – **P.L:** French, Comorian.

RADIO MORONI (Gov.)

ADDR: B.P. 250, Moroni, Grand Comore. **Te:** 2261.
STATIONS(G.C: 43.15E/11.42S) (studios: 3)

1088kHz	40kW:	All times
3331kHz	4kW:	1400-1930
7260kHz	4kW:	0330-1300

FM: 88.63/91.9/95.86MHz 0.05kW: 0330-1300, 1400-1930.
HOME SCE. in French: 0330-0400, 0500-1015, 1500-1930.
N: 0345, 0930, 1630. **Comorian:** 1015-1230, 1400-1500.
Malgache: 0400-0500. **Swahili:** 1230-1300. **N:** 1230.
INT-SIG: Folklore Music, played on native instrument – **V.** by QSL-card or letter. Rp. Rec. acc – **PUB:** Prgr. schedule (monthly).

CONGO (People's Rep.)

L.T: GMT+1h – **Pr.L:** French, Lingala, Kikongo.
EC: a/c 50 (yes).

RADIODIFFUSION TÉLÉVISION CONGOLAISE (Gov.)

ADDR: B.P. 2241, Brazzaville. **Te:** 4334. **Cable:** Radio-

Congo. **Reg. st:** B.P. 1063, Pointe Noire.
STATIONS: Brazzaville (G.C: 15.18E/04.15S)
*) Pointe Noire (G.C: 12.01E/04.51S)

kHz	kW	kHz	kW	kHz	kW
1475	80	4795	4	9610	50
*1520	0.25	*4843	4	9715	50
3232	25	6115	50	15190	50
4765	50	7175	25		

FM: 98.95MHz.
NATIONAL Netw. in French, Lingala, Kikongo: 0430-2300 on 1475/3232/4765/6115kHz + FM; 0700-1700 on 4795/7175/9610kHz + FM; 1030-1400 on 15190, 1700-2300 on 4795/9715/15190kHz.
Portuguese, English: 2115-2145 (Fri 2150-2220, Sat 2100-2130, Sun 2235-2305).
REGIONAL Netw. in French, Vernaculars: 0430-1200, 1700-2000 on 1520/4843kHz (relays N. from Brazzaville and own prgr's).
ANN: "La voix de la Révolution Congolaise". English: "This is Brazzaville, the Voice of the Revolution, our National Radio station in the People's Republic of the Congo" Reg. st: "Ici Pointe Noire, station regional de la Voix de la Révolution Congolaise" – **INT-SIG:** Zanzi solo – **V.** by letter. Rp. Rec. acc.

EGYPT (Arab Republic of)

L.T: GMT+2h (Su: GMT+3h) – **Pr.L:** Arabic – **EC:** a/c 50, 220V.

RADIO AND INTERNATIONAL COMMUNICATIONS ADMINISTRATION

ADDR: P.O. Box 795, Cairo. **Cable:** Radiomisr.

EGYPTIAN RADIO & TELEVISION (Gov.)

ADDR: Prgr. Authority: Radio and TV Building, Corniche Road, Cairo. **Cable:** Kahiradio. – Engineering Authority: P.O. Box 1186, Cairo. **Cable:** Cibrotev.
L.P: Responsible Officers: Radio: Mrs. S. El-Mohandes; Engineering: Mr. A. Zayan; Superv. English Sce: Mrs. Nagla Waked.

STATIONS: Mediumwaves

Station	kHz	kW	Station	kHz	kW
Cairo III	557	40	Batra III	1106	600
Batra II	620	450	Sohag	1142	5
Tanta	710	100	Tanta	1160	60
Sohag	755	5	Gena	1178	1
Abis	773	1000	Alexandria I	1196	2
Batra I	818	450	Aswan	1277	10
Cairo V	872	50	Assiut	1304	5
Cairo IV	936	10	North Egypt	1340	
Assiut	980	5	Minia	1421	30
Cairo	1061	50	Minia	1475	5
Minia I	1079	2	Quena	1475	5
Luxor I	1079	5	Luxor	1586	5

Shortwaves: Abu Zaabal (G.C: 31.22E/30.16N): 100 kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
6170	9455	9665	9755	11715	15135	17745
6230	9475	9675	9770	11785	15175	17755
7050	9495	9680	9805	11915	15475	17785
7075	9550	9710	9850	12005	17625	17920
7225	9575	9725	11630	15130	17670	21465

HOME SERVICES to Egypt and the Arab World
General Arabic Prgr: 0400-2355.
0400-0700 on 737/818/7075/9455kHz; 0700-1100 on 737/872(Fri on 818)/6170/7225/9495/11630/11785/15175kHz; 1100-1400 on 737/818/6170/7225/11630/11785/15175 (to 1300)kHz; 1400-1600 on 737/818/6170/7225/11630/17670kHz; 1600-1800 on 737/818/11630 (to 1730), 17670kHz; 1800-2355 on 737/818/7075/9475/9850 (from 1930), 11630 (from 2000), 12005kHz; all prgrs also relayed on regional MW-st's.
N: 0500, 0600, 0700, 0800, 1000, 1030, 1230, 1500, 1700, 1830, 2000, 2100, 2330.
Second Prgr (Cultural): 1930-2300 on 872kHz.
Middle East Comm. Prgr: 0400-0605 and 1200-2300 on 737/960kHz.
Voice of Arabs and Sudan Corner (in Arabic): 0300-0600 on 620/7050/9850kHz, 0800-1400 on 620/710(to 1155)/15475/17625/17745kHz, 1500-1900 on 620/15475/17745kHz, 1900-0030 on 620/7050(from 1930)/11630kHz.
N: 0400, 0530, 0830, 1130, 1330, 1515, 1630, 1800, 2030, 2300, 0015.
Palestine Sce (in Arabic): 0600-0800 and 1400-1500 on 620/15475/17625/17745kHz.
N: 0630, 1415.
Musical Prgrs: Arabic music: 1500-2000 on 939kHz; Western music: 0500-1030 and 1430-2400 on 1061kHz.
People's (Comm.) Prgr: 1200-2335 on 710kHz.
Alexandria Reg. Prgr (Comm.): 1500(Fri 0900)-2200 on 1196kHz.
Koran Prgr: 0030-0800 and 1200-2100 on 1159/1340/9755kHz (1730-1930 only 1159kHz).
Voice of Palestine/Voice of the Palestinian Revolution: 1000-1100 on 1106kHz, 1800-1930 on 872/7050kHz.

FOREIGN LANGUAGE PRGR. on 557kHz:
English: 0530-0545, 0800-1000(Fri only), 1700-1900. **French:** 0600-0700(Fri 0800, Sun 0830), 1030-1230, 1430-1530) (exc. Tues & Sat), 1900-2200. **Greek:** 0500-0515, 1300-1400. **Italian:** 0515-0530, 1530-1615. **German:** 0545-0600, 1615-1700. **Armenian:** Tues/Sat 1400-1500, 1500-1530(Music). **Sudanese Prgr:** 0400-0555 on 710,9475kHz, 1200-1625 on 872,11915(from 1300),15135kHz.

FOREIGN SERVICE
I=Ea. Africa, II=Ce. Africa, III=So. Africa, IV=We. Africa, V=Europe, VI=Middle East, VII=Palestine Area, VIII=So. Asia, IX=So. Ea. Asia, X=No. America, XI=So. America, XII=USSR.

Afar	Area	kHz
1655-1745	I/II/III	11860
Amharic		
1745-1845	I/II/III	11860
Arabic		
0200-0300	X	9665
1000-1200	IX	17920
1115-1145	V/X	12005
2030-2130	IV	11715
2345-0045		15335
Bambara		
1945-2030	IV	11715
Bengali		
1445-1545	VIII	17920
English		
0200-0330	X	9475
1315-1445	VIII	17920
1600-1700	VII	1106
1715-1845	I/II/III	15255
2030-2200	IV	11790
2200-2315	V	9805
Farsi		
1530-1655	VI	11805
Fulani		
1930-2030	IV	15335
French		
0100-0200	X	9665
1500-1600	VII	1106
1930-2045	V	9805
2030-2200	IV	15335
German		
2045-2200	V	9805
Hausa		
1930-2100	IV	15210
Hebrew		
0400-0700	VII	1106
1000-1400	VII	1106
1730-2300	VII	1106
Hindi		
1430-1530	VIII	15175
Italian		
1830-1930	V	9805

Indonesian	Area	kHz
1200-1345	IX	21465
Lingala		
1945-2030	I/II/III	17890
Malay		
1345-1500	IX	21465
Nianga		
1515-1555	I/II/III	11860
Ouolof (Wolof)		
1900-1945	IV	11715
Portuguese		
1845-1945	I/II/III	11780
2330-0045	XI	11715
Pushtu		
1330-1430	VIII	15175
Russian		
1400-1500	VII	1106
1700-1750	XII	9805
Sesotho		
1630-1715	I/II/III	15255
Shona		
1645-1730	II/III	17785
Sindebele		
1730-1815	II/III	17785
Somali		
1555-1655	I/II/III	11860
Spanish		
0045-0200	XI	9475
0045-0200	XI	15335
Swahili		
1530-1730	I/II/III	9770
Thai		
1200-1300	IX	17920
Turkish		
1700-1755	V	6230
Urdu		
1530-1700	VIII	15175
Yoruba		
2100-2145	IV	15210
Zulu		
1600-1645	II/III	17785

ANN: General Prgr: "Edha'at Gumhuriyat Misr El Arabiya min il-Kahira". Second Prgr: "Il bernamig i-thani min il-Kahira". Voice of Arabs: "Sowt el Arab". Sudanese Prgr: "Ruk'n e-Sudan". Middle East Prgr: "Edha'at e-Shark el awssat". Koran Prgr: "Edha'at il qur'an". People's Prgr:

RADIO CAIRO CALLING

FROM P.O. BOX 566, CAIRO, A.R.E.

SERVICES BEAMED TO:

AFRICA **AMERICA (NORTH & SOUTH)** **ASIA**

EUROPE

FOR FURTHER DETAILS SEE PAGE 142

"Ma' e-sha'ab". – "Sàut Ifriqya min il-Kahira". – E: "This is R. Cairo" or "This is the Voice of Africa from Cairo". G: "Hier ist R. Kairo" – **V.** by QSL-card. Re to P.O. Box 566, Cairo. Schedules available upon request.

EQUATORIAL GUINEA (Dem. Rep.)

L.T: GMT + 1h – **Pr.L:** Spanish, Vernaculars.

DIRECCION GENERAL DE CORREOS Y TELECOMUNICACIONES, Malabo.

Cable: Dirpostel.
L.P: Dir. Gen: V.B. Etane Matomba.

RADIO MALABO (Gov.)

ADDR: Apt. 195, Malabo, Isla Macias Ngnema Biyogo.
Te: 382.
STATION: 6250kHz 10kW – **HOME SCE:** 0500-2300 – **Spanish:** 0700-1530, 1900-2300 exc. **English:** 2030-2100. **Fang/Pamue:** 1530-1700. **Bubi:** 1700-1800. **Annobones:** 1800-1830; **Combe:** 1830-1900.
ANN: "Radio Malabo, emisora en la capital de la República de Guinea Ecuatorial" **INT-SIG:** Opens and closes with national anthem.

RADIO ECUATORIAL (Gov, Comm.)

ADDR: Apt. 57, Bata, Rio Muni. **Te:** 182.
STATION: 4926kHz 5kW.
HOME SCE, in Spanish and Vernaculars: W 0430-2200; Sun 0700-2200 (times vary).
ANN: "Esta es Radio Ecuatorial, Bata. La Voz del Rio Muni, emitiendo en onda corta de 61 metros, frecuencia de 4926kHz" – **INT-SIG:** Opens with tribal music and National Anthem.

ETHIOPIA

L.T: GMT+3h – **Pr.L:** Amharic, Somali, English, French, Arabic, Afar, Tigre, Tigrigna, Galigna – **E.C:** a/c 50, 127/220V (no).

BOARD OF TELECOMMUNICATIONS OF ETHIOPIA

P.O. Box 1047, Addis Ababa. **Cable:** Gentel.
L.P: Gen.Mgr: B. Admassie.

ETHIOPIAN BROADCASTING SERVICE (RADIO ETHIOPIA) (Gov.)

ADDR: P.O. Box 1020, Addis Ababa. **Te:** 121011. **Cable:** Ethiocast.

STATIONS: MW: Addis Ababa (G.C: 38.43E/08.58N). SW: Gedja (G.C: 38.38E/08.47N)

kHz	kW	kHz	kW	kHz	kW
872	100	6185	100	9605	100

HOME SCE: Amharic: W 0400-0530, 1030-1200(Sat 1300); Sun 0500-0900, 1030-1400; D 1700-2100. **Somali:** W 0330-0400, 1200-1300(Sat 1400-1430), Sun 0330-0430. **English:** 1000(Sun 0900)-1030, 1500-1530. **Arabic:** W 1300-1400(Sun 1400-1500). **Afar:** W 1400(Sat 1430)-1500(Sun 0430-0500) on 6185kHz. **Tigrina:** 1530-1600. **Oromo:** 1600-1700. **N: English** 1015, 1515.

Regional Stations
Harar 854kHz 100kW: Galigna: W 1300-1400(Sun 1400-1500).
Asmara 944kHz 50kW: Tigre: 1500-1545. Other times both st. relay Addis Ababa.
ANN: "This is R. Ethiopia broadc. from Addis Ababa"; Amharic: "Yitioptia Radio Nu"; Arabic: "Ithaa 'til Ethiopiyeh min Addis Ababa" – **INT-SIG:** Local flute (Washint).

RADIO VOICE OF THE GOSPEL (Lutheran World Federation) Office of Communication (Educ.Rlg.)
ADDR: P.O. Box 654, Addis Ababa. **Te:** 448190. **Cable:** Lutherworld. **Telex:** 21195 RVOG Addis.
L.P: Dir: M. Lundgren. Prgr.Dir: Knud Joergensen. Tech.Dir: Kebede Gobena. Dir. Audience Research & Planning: Menkir Esayas. Dir.Adm: Yohannes Irenna.
STATIONS: Gedja (G.C: 38.38E/08.47N): 2×100kW tr's.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
6015	7210	9705	11795	11900	15190	15280
6065	7240	9755	11800	11905	15235	15320
7125	9525	9760	11830	11930	15245	15350
7145	9540	11745	11870	11945	15250	15365
7165	9590	11770	11890	11955	15260	15400
7180						

I=Ea. Africa; II=Madagascar; III=So. Africa; IV=West Arab countries; V=Zaire; VI=We. Africa; VII=No. India; VIII=So. India; IX=East Arab countries; X=Iran; XI=Ethiopia; XII=Southern Sudan.
Schedule 7/11 76 to 5/3 77.

Times	kHz	Beam	Area	Language
0300-0330	4905	ND	XI	Amharic
0300-0330	9525	163°	II	French
0330-0400	9525	163°	II	Malagassy
0330-0400	7210	196°	I	Swahili
0400-0410	9525	163°	II	French
0400-0425	7210	196°	I	**English**
0415-0525	6015	ND	XI	Amharic
0430-0555	15250	353°	IV	Arabic
0530-0610	11800	267°	XI	**English**
0600-0640	15260	237°	X	French
0945-1000	7145	ND	XI	**English**
0945-1100	11770	196°	I	**English**
1000-1030	7145	ND	XI	Amharic
1030-1100	7145	ND	XI	Tegrigna
1100-1200	11770	196°	I	Swahili
1100-1200	7145	ND	XI	Oromigna
1315-1410	15400	79°	VIII	Tamil
1345-1443	11905	57°	VII	Telegu
1415-1540	15190	16°	IX	Arabic
1515-1555	15320	163°	II	Malagassy
1545-1610	15190	16°	X	Farsi
1600-1700	6015	ND	XI	Amharic
1615-1640	11745	16°	X	Farsi
1645-1710	7240	ND	XII	**English**
1700-1710	6015	ND	XI	**English**
1715-1755	11955	267°	VI	French
1715-1810	9705	196°	I	Swahili
1810-1825	9705	196°	I	**English**
1800-1843	11955	267°	VI	Fulfulde
1830-1910	7145	196°	III	**English**
1845-1943	11955	267°	VI	Hausa
1915-2000	15365	267°	VI	French
1945-2030	11955	267°	VI	**English**

Tentative Schedule 6/3 77 – 30/4 77.

Time	Main (kHz)	Alternate (kHz)	Area
0300-0330	4905	–	XI
0300-0330	9525,11795	9590,11900	II
0330-0400	9525,11795	9590,11900	II
0330-0400	7165,9705	7125,9760	I
0400-0410	9525,11795	9590,11900	II
0400-0425	7165,9705	7125,9760	I
0415-0525	6015	6065	XI
0430-0555	15250	15400	IV
0530-0610	11800	11870	VI
0600-0640	15250	15400	V
0945-1000	7145,9705	7180,9760	XI
0945-1100	11770	11945	I
1000-1030	7145,9705	7180,9760	XI
1030-1100	7145,9705	7180,9760	XI
1100-1200	11770	11945	I
1100-1200	7145,0705	7180,9760	XI
1315-1410	15245	15350	VIII
1345-1443	11805,15235	11955,15280	VII
1415-1540	15190	15400	IX
1515-1555	15320	15235	II
1545-1610	15190	15400	X
1600-1700	6015	6065	XI
1615-1640	11830	11890	X
1645-1710	7165,9755	7125,9540	XII
1700-1710	6015	6065	XI
1715-1755	11830	11930	VI
1715-1810	9705	9760	I
1810-1825	9705	9760	I
1800-1843	11830	11930	VI
1830-1910	7145,9705	7180,9760	III
1845-1943	11830	11930	VI
1915-2000	15365	15250	VI
1945-2030	11830	11930	VI

N: English: 0400, 0530, 0945, 1315, 1330, 1700, 1810, 1900, 1945. **French:** 0400, 0515, 1730, 1915. **Amharic:** 0415, 1000, 1600. **Hausa:** 1830. **Swahili:** 1100, 1715. **Fulfulde:** 1800.
Mediumwave Sce (for Addis Ababa): 0300-0600, 1500-2015 on 989kHz 1kW.
ANN: "This is Radio Voice of the Gospel, ETLF, Addis Ababa, Ethiopia" – **INT-SIG:** First four notes of "a Mighty Fortress" on drums – **V.** by QSL-card. Rec. acc.

GABON (Republic)

L.T: GMT+1h – **Pr.L:** French – **EC:** a/c 50 (no).

OFFICE DES POSTES ET TELECOMMUNICATIONS

Libreville. **Cable:** Dirofipostel.
L.P: Dir. Gen: J. Missanda.

RADIODIFFUSION TELEVISION GABONAISE (Gov.)
(La Voix de la Renovation)

ADDR: B.P. 10150, Libréville; B.P. 270, Franceville. **Te:** 321-52.
L.P: Dir: R. Moubouyi. Chief Eng: G. Ebang Edzang.
STATIONS
a=Oyem (G.C: 11.36E/01.40N); b=Franceville (G.C: 13.33E/01.36S); c=Port Gentil (G.C: 08.42E/00.42S); d=Libréville (G.C: 09.28E/00.25N); e=Tchibanga (G.C: 11.03E/02.52S).

kHz	kW	Net	kHz	kW	Net
548a	20	Reg.	3350b	20	Reg.
989b	20	Reg.	4777d	100	Nat.
1205a	1	Prov.	4830b	20	Reg.
1520c	1	Nat.	6030b	4	Reg.
1554d	20	Nat.	7135b	20	Reg.
3300d	20	Nat.	7270d	100	Nat.

FM: Oyem 92.97MHz.
NATIONAL NETWORK (French, Vernaculars): On 1520/1554kHz: 0430-2400. On 3300/4777kHz: 0430-0630, 1630-2400. On 7270kHz: 0630-1630.
N. in French: 0500, 0600, 0700, 0800, 0900, 1000, 1100(Sat 1130), 1200(Sat 1230), 1400, 1500, 1600, 1700, 1830, 2000, 2100, 2200.
REGIONAL NETWORK (in French, Vernaculars): On 989/3350/4830kHz: 0430-0700, 1700-2000(Sat 2100, Sun 2300). On 989/6030/7135kHz: 1030-1400(Sun 0700-1400).
PROVINCIAL NETWORK (French, Vernaculars): On 548/1205kHz +FM. (No schedule available). Opens at 0430.
ANN: Libréville: "Ici la Voix de la Renovation station nationale de la Radiodiffusion-Télévision Gabonaise émettant de Libréville". Franceville: "Ici Franceville La Voix de la Renovation, Station Regionale de la Radiodiff. TV Gabonaise". Oyem: "Ici la Voix de la Renovation, Station Provincial de la Radiodiffusion TV Gabonaise émettant de Oyem" – **INT-SIG:** Local instruments – **V.** by QSL-card or letter. 2 IRC's required.

GAMBIA

L.T: GMT – **Pr.L:** English + 5 local languages.

RADIO GAMBIA (Gov.)

ADDR: Mile 7, Banjul. **Te:** 93.2101. **Cable:** Broadcasts.

L.P: Dir. of Inf. & Broadc: S.J.S. Conataeh. Ag. Broadc. Officer: B.M. Gaye. Chief Eng: M.J. Baveystock.
STATIONS: Bonto 20kW MW, Basse 2kW MW.
648kHz – 94.1MHz 0.1kW.
HOME SCE. in English and local languages: W 0625-0800(Sat 0900), 1115-1400, 1655-2300; Sun 0825-1400, 1625-2300 – **BBC World News:** 0700, 1300, 2000 – **News of the African World** (BBC): 0730 – **Nat. News:** in English, Wolloff, Mandinka: 0710, 1310, W 1800, Sun 1900, 2255; In Fula, Jola, Sarahuleh: 2100.
ANN: "You are tuned to R. Gambia from Banjul" – **INT-SIG:** Music played on the cora, an indigenous harp-like instrument – **V.** by letter. Rp.

RADIO SYD (Comm.)

ADDR: P.O. Box 280, Banjul. **Te:** 8170. **Cable:** Syd.
L.P: Dir: Mrs. B. Wadner.

STATION: Banjul 908kHz 5kW.
D.PRGRS. in English, French, Swedish, Wolloff, Mandinka: 0600-0200 – **V.** by letter.

GHANA

L.T: GMT – **Pr.L:** Akan, Ewe, Dagbani, Ga, Hausa, Nzema English – **EC:** a/c 50, 230V (no).

GHANA BROADCASTING CORPORATION (Autonomous Statutory Corp.)

ADDR: P.O. Box 1633, Accra. **Cable:** Broadcasts. **Te:** 2116. **Telex:** 2114. (No. of studios: 14).
L.P: Dir.Gen: J.Y. Assasie. Dir. of Eng: M.A. Opang. Dir. of Sound-Broadc: R. Agodzo.
STATIONS: Accra (G.C: 00.10E/05.31N): 1×5kW, 2×10kW and 1×20kW tr's; Ejura (G.C: 01.22E/07.23N): 2×20kW tr's.
HOME SCE: Networks: GBC-1 National Sce. in English & Vern; GBC-2 Commercial Sce. in English.

Tr.	kHz	kW	Times
Ejura 1	3350	20	0530-0805(Sat/Sun 0900), 1600-2305
Accra 2	3366	10	as 3350kHz
Accra 1	4915	10	0530-0805(Sun 2300) 1200-2305
Ejura 2	4980	20	0530-0805(Sun 2300) 1200-2305
Ejura 1	5990	10	1200(Sat/Sun 0900)-1600
Accra 2	7295	10	as 5990kHz
Ejura 1	9640	10	as 5990kHz

N: English: GBC-1: 0600, 0700, 0800, 1100(Sat/Sun), 1300, 1400, 1800, 2000, 2245. GBC-2: On the h.
Ghana languages: GBC-1: 0615, 0640, 0715, 1215, 1245, 1830, 1915, 1940.
ANN: "This is GBC-1/2, the National/Commercial Sce. of R. Ghana, the Voice of the Revolution", or "National Sce. of Ghana Broadc. Corp, GBC-1".

EXTERNAL SCE

STATIONS: 4×100kW tr's at Tema (G.C: 00.01W/05.42N) and 2×250kW tr's at Ejura.

Tr	kHz	kW	Tr	kHz	kW	Tr	kHz	kW
Tema	6130	100	Ejura	15285	250	Tema	21545	100
Tema	9545	100	Tema	15285	100	Ejura	21720	250
Ejura	11850	250						

I=Mid. East/Sudan/UAR; II=No. Africa; III=Ethiopia/Somalia; IV=We. Africa; V=So. Africa; VI=Ce. Africa; VII=Ea. Africa; VIII=Sudan; IX=No. America and Caribbean; X=Europe; XI=Angola/Mozambique; XII=Australasia.

Arabic	Area	kHz
1600-1645	I	21545
1945-2030	II	9545
English		
0700-0900	IV	6130
1400-1430	VII	21720
1445-1530	V/VII	15285
	XII	21545
		21720

English	Area	kHz
1600-1700	IV	6130
1645-1730	VII	15285
1815-1900	VII	15285
2000-2100	IX	11850
2000-2300	IV	6130
2030-2200	X	9545
		15285

French	Area	kHz
1700-1800	IV	6130
1900-1945	X	9545
1900-2000	IV	6130
Hausa		
1800-1900	IV	6130

Portuguese	Area	kHz
1400-1445	XI	21545
1700-1745	XI	21545
Swahili		
1545-1630	VII	21720
1730-1815	VII	15285

NEWS: English: 0730, 1415, 1500, 1630, 1715, 1830, 2015, 2030, 2100, 2130, 2245. **French:** 1715, 1915.

ANN: E: "This is the External Sce. of R. Ghana, the Voice of the Revolution". F: "Ici la Voix du Ghana", P: "Esta e A Voz da Ghana". Arabic: "Huna Accra, Saut-al Ghana" – **INT-SIG:** Home Sce. sign on with drum beat; Ext. Sce. Afr. instrument, also chimes – **V.** by QSL-card and letter. Re. on technical matters to Propagation Eng: on prgrs to Head of External Sce; Rec. acc – **PUB:** "What's New" (once in 2 months) "Radio & TV Times" (weekly), External Service sched. (quarterly) – **F.PL:** Regional st. near Ho. FM sts.

GUINEA – BISSAU (Rep.)

L.T: GMT – **Pr.L:** Portuguese.

RADIODIFUSÃO NACIONAL (Gov.)

ADDR: C.P. 191, Bissau.
STATION: (G.C: 15.35W/11.51N): 1070kHz 100kW – 5041kHz 10kW + FM.
HOME SCE. in Portuguese: 0600-2400. **N:** 0700.

ANN: "Escutar a Radiodifusão Nacional da República de Guiné-Bissau" – **V.** by QSL-card. Rp.

GUINEA (Republic)

L.T: GMT – **Pr.L:** French, Vernaculars – **EC:** a/c 50, 220/380V (yes).

MINISTERE DES POSTES ET TELECOMMUNICATIONS

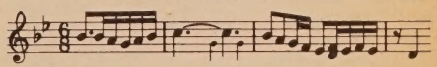
Direction Générale des Télécommunications, Conakry.
Cable: Minipostel – **L.P:** Dir.Gen: L. Bangoura.

RADIODIFFUSION NATIONALE (Gov.)

ADDR: B.P. 617, Conakry. **Cable:** Minipostel.
STATIONS (G.C: 13.40W/09.32N)

1403kHz	100kW:	1230-0830
4910kHz	18kW:	1230-0830
6155kHz	18kW:	1230-0830
7125kHz	18kW:	1600-0830
9650kHz	100kW:	1230-0830
11965kHz	100kW:	1230-0830

HOME SCE: N: French: 2000, 2200, 2355, Vernaculars: 1945, 2220, 0000.
FOREIGN SCE: Occasional broadcasts in English.
ANN: F: "Ici la Voix de la Révolution (before news)" or "Ici Conakry, Radiodiff. Nationale" or "Ici Conakry Radiodiff. de la République de Guinee" – **INT-SIG:** First movements of the popular heroic song "Alpha Yaya" (first movements of the Guinean National Anthem) on Guitar:



V. by letter. Re. to Dir. of the Tech. Studios.

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IVORY COAST (Rep.)

L.T: GMT – **Pr.L:** French, Vernaculars – **EC:** a/c 50, 220/380V (yes).

ADMINISTRATION DES POSTES ET TELECOMMUNICATIONS

Abidjan. **Cable:** Dirpostel.
L.P: Dir. Gen: N.K. Bohoussou.

RADIODIFFUSION IVOIRIENNE (Gov.)

ADDR: B.P. 2261, Abidjan. **Te:** 228181. **Cable:** Radiocotivoire.
STATIONS: (G.C: 08.75W/05.21N)

kHz	kW	kHz	kW
1241	4	6015	100
1493	5	7215	10
*1578	5	11920	100
4940	25		

*) Regional St. Baouke (relay).
FM: 88.0MHz (Abidjan), 91.0MHz (Bouaflé), 88.0MHz (Man), 90.0MHz (Koun-Abbrosso).
HOME SCE: 0600-2400 (6015 at 0600-0800 only). **N: French:** W 0602, 0645, 0730, 1202, 1355, 1602, 2000, 2230, 2355; Sun 0602, 0730, 1205, 1245, 2000, 2230, 2355. **Vernaculars:** 1600-1830.

EXTERNAL SCE: English: 1845-2000 on 1241/11920kHz + FM. **N:** 1845, 1915.
ANN: "Ici Abidjan, Radiodiff. Ivoirienne". **E:** "This is the External Sce. of R. Ivory Coast broadcasting from Abidjan".
INT-SIG: Signs on with Clock Chimes and National Anthem – **V.** by QSL-card or letter. Rp.

KENYA

L.T: GMT + 3h – **Pr.L:** English, Swahili, Hindustani, 11 Vernaculars.
EC: a/c 50, 240/415V (yes).

VOICE OF KENYA (Gov.)

ADDR: Box 30456, Nairobi. **Te:** 334567. **Cable:** Broadcasts. **Telex:** 22244 NBO.
L.P: Dir: J.R. Kangwana. Chief Eng: S.N. Macharia.

HOME SERVICES

National Sce. (Swahili): 0255 (Sun 0330)-2015 (Sat 2115). a)=Nairobi (Ngong: G.C: 36.45E/01.21S); b)=Nairobi (Langata: G.C: 36.47E/01.21S); c)=Mombasa (Changamwe); d)=Kisumu (Kapsimotwa; G.C: 34.45E/00.07S).

kHz	kW	Times	kHz	kW	Times
611a	100	as above	4915b	100	0255(Sun 0330)-0630,
791c	20	as above			1330-2015(Sat 2115)
953d	20	as above	7140a	100	0630-1315
1106a		as above			
1133a		as above	9665b	100	0930-1430

FM: 92.9MHz 1kW as above.
N: 0315, 0400, 0600, 1000, 1400, 1600, 1800.

General Sce. (English): Mon-Fri 0255-0630, 0900-1100, 1300-2010; Sat 0255-2110; Sun 0300-2010.

kHz	kW	Times	kHz	kW	Times
540	20	as above	4804b	5	0255(Sun 0330)-0630,
746a	100	as above			1300-2010(Sat 2110)
1079c	20	as above	7125b	5	0900-1100(Sat/Sun
1304a	0.5	as above			0630-1320)

FM: 95.1MHz 1kW: as above.
N: 0400, 0600, 1000, 1400, 1500 (Sun), 1600, 1800, 2000 (exc. Sat), 2100 (Sat only).

Central Sce. (Nairobi) in Kikuyu, Masai, Hindustani, Kikamba and Kimeru:
1268kHz (b) 20kW: W 0900-1045, 1500-1900
4950kHz (b) 10kW: W 1500-1900
7150kHz (b) 10kW: 0900-1045

Western Sce. (Kisumu) in Kuria, Kisii, Kalenjin, Teso, Luhya and Luo:
872kHz(d) W 0300-0630, 0900-1900
4855kHz (d) 5kW: W 0300-0630, 1300-1900
7295kHz (d) 100kW: W 0900-1300

Eastern Sce. (Mombasa) in Somali, Turkana, Rendille and Boran:
4885kHz (c) 10kW: 0330-0500, 1400-1935
7240kHz (c) 10kW: 0800-1100.
ANN: a)+b)+c)+d): "Hii ni Sauti Ya Kenya". **V.** (both Nairobi and Kismu) by letter or QSL-card.
F.Pl: Regional st in No. Kenya. 100kW st's at Meru and Voi. 20 Booster st's.

LESOTHO

L.T: GMT + 2h – **Pr.L:** Sethoto, English – **EC:** a/c 50.

LESOTHO NATIONAL BROADCASTING SERVICE (Gov, Comm.)

ADDR: P.O. Box 552, Maseru. **Te:** 3561. **Telex:** 340 BB. **Cable:** Broadcast.
L.P: Dir. of Inf. & Broad: V.T. Ndobe. Tech. Officer: L. Letele (Maseru), C. Mothepu (Mohale's Hoek).

STATIONS: (10kW): 899kHz – 4800kHz (irr) + FM 87.77 MHz.
Mohale's Hoek (Repeater): 1196kHz (2kW).
HOME SCE: in Sethoto, English: 0400-2030 (Mon/Fri/Sat 2105, Sun 2135) on MW and SW.
N. in Sesotho: W 0415, 0700, 1100, 1645, 1845; Sun 1100, 1700, 1900.
English: 0500-0530, W 0730-0830, 1130-1300, 1500-1600 (Sun 1400-1630), 2030-s/off. **N:** 0500 (BBC), 1130, 1530.
BBC World Sce. Relay 0400-2000 on FM.

ANN: "This is R. Lesotho". Sesotho: "Se-ea-le-Moea sa Lesotho, Maseru" – **INT-SIG:** Nat. Anthem at opening and closing – **PUB:** "Radio Times" (in English and Sethoto, monthly) – **V.** by QSL-card – **F.Pl:** 2×50kW during 1976 – **ALF:** R 3.00.

LIBERIA (Rep.)

L.T: GMT – **Pr.L:** English, Liberian and 8 Vernaculars.

STATION ELBC – LIBERIAN BROADC. CORP.

ADDR: P.O. Box 594, Monrovia. **Te:** 22641. **Cable:** Broadcasts.
L.P: Ch.Eng: A.F.C. Finnegan.

STATIONS (G.C: 10.42W/06.14N): 10kW.
629kHz*: 0528-1000, 1200-2400
3255kHz: 1830-2400
6090kHz: 0528-1000, 1200-1830.
*) drifting to 640kHz.

HOME SCE. N. in English: 0600(W), 0700, 0900(W), 1200(Sat), 1300, 1400(W), 1600(W), 1700(Sun), 1800, 1900, 2100, 2200(VOA), 2300, 2358.
ANN: "This is ELBC, Monrovia" – **V.** by QSL-card – **FI:** by adv. – **F.PL:** 50kW on 629kHz.

LAMCO BROADCASTING STATION – ELNR

(Owned by Lamco Joint Venture, The Liberian-American-Swedish Minerals Company).
ADDR: The Lamco Inf. & Broadc. Service, Nimba.

STATIONS: Buchanan/Yekepa (Nimba) both on 93.58MHz (0.18kW).

D.PRGR: 0530-2200 – BBC and VOA World N, Liberian N. and cultural prgr's relayed from ELBC, Monrovia. Own prgr: Local N. and Inf. and educ. prgrs in English and Vernaculars for the Lamco workers – **V.** by letter – **PUB:** Lamco News (monthly).

RADIO ELWA

(Non-Comm, Cultural Missionary Broadc. Sce. of the Sudan Interior Mission.)
ADDR: Box 192, Monrovia. **Cable:** Evangel. **Te:** 26669.
L.P: Dir.Gen: Bart Bliss. Dir. of Eng: Jon Shea. Public Inf. Officer: Stan Bruning.
STATIONS (G.C: 10.42W(06.14N): 2×10kW, 2×50kW sw-tr's; 1×10kW mw-tr.

kHz	kW	kHz	kW	kHz	kW
710	10	6075	50	11940	50
3227	10	9550	50	11945	50
4770	10	11775	50	11950	50

HOME SCE: English: On 710kHz: W 0600-0915, 1530-2300, Sat 0600-2300; Sun 0700-2245. **On 4770kHz:** W 0630-0800, 1555-1815; Sat 0630-1800, Sun 0700-1800; D 1900-2300(Sun 2245).
Vernaculars: On 3227kHz: 0610-0800, 1805-2220.
On 4770kHz: 1800(W1815)-1900.
EXTERNAL SCE: I=We. Africa (97°/325°); II=We. and Ce. Africa (82°); III=No. Africa (18°); IV=Non directional.

Arabic		kHz	Hausa		kHz
0630-0800	III	11940	1800-1830	II	11945
English					
0700-0730(Sat)	II	11950			
0645-0730(Sun)	II	11950	**Ibo**		
1345-1615(Sun)	II	11945	1945-2015	II	11945
1915-1945	II	11945			
2015-2055	II	11945	**Yoruba**		
French			0630-0645(Sun)	II	11950
0800-0930(Sun)	II	11950	1830-1915	II	11945
1215-1345*	I	9550			
1215-1315(W)	I	9550	**Various**		
1700-1800	II	11945	0730-0815(Sat)	II	11950
1815-1915	IV	6075	1615-1700(Sun)	II	11945
Hausa			1915-1945	IV	6075
0630-0700(Sat)	II	11950	*) Sat/Sun.		
0730-0800(Sun)	II	11950			

N: English: On 710/4770kHz: 0625(W), 0709, 1200(Sat/Sun), 1309(Sat/Sun), 1600, 1709(Sat/Sun), 1725(W), 1800(W), 1900, 2000(W); On 11945kHz: 2045.
ANN: Home and Foreign Sce: English: "This is ELWA broadc. from Monrovia, Liberia". French: "Ici ELWA, Monrovia, Liberia" – **INT-SIG:** Vibraharp recording: Part of song "O Give the Winds a Mighty Voice" – **V.** by QSL-card. Rec. acc. Rp. preferred (3 IRC's for airmail) – **PUB:** R. News Bulletin (quarterly). Broadcast sched. free on request. – **FI:** Voluntary gifts.

VOICE OF AMERICA RADIO STATION IN LIBERIA

ADDR: Voice of America, Washington DC 20547, USA.
STATIONS:
Shortwave: Monrovia (G.C: 10.33W/06.26N): 6×250kW and 2×50kW tr's.

Nov-Feb	
kHz	Times
3990	0300-0730
	1600-2200
6035	0300-0800
6045	1600-2200
6180	0600-0800
7135	1830-2230
7175	0600-0800
7195	0300-0600
	1600-2200
7280	0300-0730
9615	0400-0600
9750	0600-0800
11740	1530-1600
11805	0600-0800
11865	1630-1830
11915	0600-0730
15125	0730-0800
15240	2300-0015
15260	1430-1500
	1530-1600
15315	1630-2030
15400	0000-0300

Nov-Feb	
kHz	Times
15445	1600-2200
17810	0730-0800
17855	1630-2230
17870	1600-2200
21610	1700-1715

Mar-Apr	
kHz	Times
3990	0300-0730
	1600-2200
6035	0300-0800
6045	1600-2200
6180	0600-0800
7135	1830-2230
7175	0600-0800
7195	0300-0600
	1600-2200
7280	0300-0730
9515	1900-2200
9740	0600-0730
9750	0600-0800
11805	0600-0800
11865	1700-1800

Mar-Apr	
kHz	Times
11970	1600-1700
15235	0730-0800
15240	2300-2400
15400	0100-0330
15445	1600-2200

Mar-Apr	
kHz	Times
17795	1700-1800
17855	1830-2230
17860	0730-0800
17870	1430-1500
	1600-2200

D.PRGR: See USA.

ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from Washington DC – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programmes – **V.** by QSL-card. No Rp.

LIBYAN ARAB REPUBLIC

L.T: GMT+2h – **Pr.L:** Arabic – **E.C:** a/c 50.

PEOPLES' REVOLUTION BROADCASTING STATION (Gov.)

ADDR: P.O. Box 333, Tripoli. P.O. Box 119, El-Beida. **Te:** 32451. **Cable:** Idaa-libya.
L.P: Dir.Gen: Ibrahim Elbashari. Vice-Dir.Gen: Mohamed Hegazi. Chief Eng: Mohamed El-Hajjaji. Dir. of Int. Relations: Saleh A. Elsheiky.

STATIONS (G.C: Tripoli: 13.11E/32.54N; Benghazi: 20.04E/32.08N; El Beida: 21.45E/32.45N.

	kHz	kW		kHz	kW
Tripoli	539	500	Misurata	1448	20
Benghazi	674	100	Tripoli	1454	20
Sebha	827	300	Benghazi	1484	10
Tripoli	1052	50	Derna	1484	10
Benghazi	1061		Tripoli	6185	100
El Beida	1124	500	Tripoli	(irr.)9565	100
Tripoli	1250	500	Sabrata	(irr.)17800	500
Tobruk	1394	10			

HOME SCE. in Arabic: 0400-2400 on 674/1052/1124/1250/1394/1448/1484 (Derna)/6185kHz – **N:** 0500, 0800, 1000, 1230, 1500, 1730, 2030.
D.PRGRS. in French/Italian/Maltese/English: 1600-1935 on 1454/1484(Benghazi). **English:** 1830-1935. **N:** 1830, 1930.
ANN: "Ithaa' Elthawrah Elshaabia men El jumhoriyah El Arabiyah Al Libyah". E: "This is the People's Revolution Broadcasting Service" – **INT-SIG:** Prgrs open and close with National Anthem. – **F.PL:** One SW at Benghazi. Three further 500kW SW tr's for Foreign Sce. at Sabrata.

MADEIRA (Portuguese)

L.T: GMT – **Pr.L:** Portuguese – **EC:** a/c 50+d/c 220/380V.

EMISSOR REG. DO ARQUIPÉLAGO DA MADEIRA (Gov.)

ADDR: Rua dos Netos 27, Funchal. **Te:** 29155. Ag. Supervisor: M.J.C. Correia.
STATION: (Monte): CSA99 1331kHz 10kW.
FM: 94.1MHz 0.5W.
HOME SCE: 0700-2400. **N:** 0800, 0830, 0900, 1000, 1100*, 1200, 1300*, 1500, 1600, 1700, 1800, 2000*, 2200, 2300* – *) incl. local news and wrp.
ANN: "Estúdios na Madeira da Radiodif. Portuguesa" – **V.** by QSL-card.

POSTO EMISSOR DE RADIODIF. DO FUNCHAL (Pr.) (Comm.)

ADDR: Rua Ponte de S. Lázaro 3, Funchal. **Te:** 21797.
L.P: Dir: Dr. W. Edw. Clode.
STATIONS: CSB91 1528kHz 1kW + CSB220 91.90MHz 0.25kW.

HOME SCE: W 0800-1030, 1200-2400. Sun 0800-2400. **Swedish:** W 1800-1900 – **FM:** 1200-1430, 2000-2400.
ANN: "Aqui Funchal, estúdio do posto emissor de radiodifusão" – **V.** by letter.

ESTAÇAO RADIO MADEIRA (Pr, Comm.)

ADDR: C.P. 450, Funchal. **Te:** 21883.
L.P: Dir. Gen: M.T. Ribeiro. Dir. Tec: Y.M. Tereira.
STATION: (Pico dos Barcelos): CSB90 1484kHz 1kW.
HOME SCE in Portuguese, English, Swedish, German: 0800-1030, 1200-2330. **N. in Portuguese:** 1000, 1230, 1900.
ANN: "Estaçao Radio Madeira no comprimento de onda de 202m, frequencia de 1484kHz" – **V.** by letter.
F.Pl: Increased power.

MALAGASY (Dem. Rep.)

L.T: GMT+3h – **Pr.L:** Malagasy, French – **E.C:** a/c 50, 110/220V.

DIRECION DES POSTES ET TELECOMMUNICATIONS, Tananarive. Cable: Dirpostel.

RADIO MADAGASIKARA (Gov. Comm.)

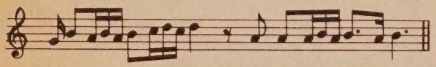
ADDR: B.P. 442, Tananarive. **Cable:** Radiogascar. **Te:** 223-81.
L.P: Dir. F. Rakotonaivo. Chief Eng: D. Ranaivoarisoa.
STATIONS (G.C: 47.35E/18.50S): 6 studios. Freq's are variable.

kHz	kW	kHz	kW	kHz	kW
1394	4	4985	4	7105	30
1502	4	5010	4	7155	30
3232	10	6135	30	9515	30
3288	10	6170	4	9690	10
3370	4				

HOME SCE: 0300-0600, 1300-2100 on 1394/1502/3232/4985/7105/7155/6135 (only 0300-0600); 0600-1300 on 3288/4985/6170/7155/9690kHz. **N: Malagasy:** 0330, 0930, 1600, 1830; **French:** 0430, 1045, 1900.

N.B: Reported using 3370 and 5010kHz additionally. (6170 alternative to 5010kHz, 7105 alternative to 7155kHz and 9515 alternative to 9690kHz).

ANN: Malagasy: "R. Madagasikaraty". **INT-SIG:** "O Raketaka" played on "Valiha" (typical instrument consisting of bamboo the detached fibres of which are used as strings):



V. by QSL-card. Re. in French. Rp.

RADIO NEDERLAND RELAY STATION

STATIONS: 2×300kW trs at Talata/Volonondry (G.C: 47.37E/18.45S):

kHz	kHz	kHz	kHz	kHz	kHz
6020	11730	15165	15220	17810	21480
7285	11740	15180	17780	17855	21685

For prgr. details see R. Nederland, Holland.

MALAWI

L.T: GMT+2h – **Pr.L:** Chichewa, English – **E.C:** a/c 50, 230/400V (yes).

THE POSTMASTER GENERAL

P.O. Box 537, Blantyre. **Cable:** Postgen.
L.P: Postmaster General: S.J.S. Mijiga.

MALAWI BROADCASTING CORPORATION (Indep. Statutory Body)

ADDR: P.O. Box 30133, Chichiri, Blantyre 3. **Te:** 31422. **Cable:** Radomalawi.
L.P: Dir.Gen: S.D. Kaliyoma. Dir.Adm: A.M. Chipendo. Dir.Prgr: P.T. Kandiero. Ch.Eng: P.M.S.N. Mkandawire.

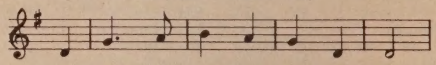
STATIONS: Blantyre (Ngumbe) (G.C: 35.02E/15.42S): 1×10kW MW-tr; 1×10kW, 1×20kW and 1×100kW SW-tr's+7 reg. st.

	kHz	kW		kHz	kW
Mangochi	539	1	Bangula	1277	1
Lilongwe	593	1	Blantyre	3380	100
Mzuzu	674	50	Blantyre	5995	20
Blantyre	755	10	Blantyre	7130	100
Nkhota Kota	908	1			

FM: Blantyre 90.36/92.16MHz, Limbe 96.12/98.27MHz.

HOME SCE: 0257-1600, 1800-2210 on MW and FM.
Nov-April: On 3380kHz: 0257-0510, 1800-2210; **On 5995kHz:** 0500-0800, 1400-2000; **On 7130kHz:** 0600-1700.
Apr-Oct: On 3380kHz: 0257-0630, 1545-2210; **On 5995kHz:** 0900-2015; **On 7130kHz:** 0700-1515.
N. in English: 0500(W), 0600(Sun), 1030(Sat/Sun 1100), 1600, 1800, 2000, 2100, 2200.
N. in Chichewa: 0400, 1050(Sat/Sun 1110), 1700, 1900, 2002, 2102, 2202.

INTERNATIONAL SCE: 1600-1800 in English, Chichewa (all freq's).
ANN: E: "This is the MBC". Chichewa: "Kuno ndi ku MBC" – **INT-SIG:** at 0255: Cock-Crow and African Drums. Pikisfon just before 1600 and 1700.



V. by letter.

MALI (Rep. of)

L.T: GMT – **Pr.L:** French+7 local languages – **EC:** a/c 50, 220/380V (yes).

RADIODIFF. NATIONALE DU MALI (Gov.)

ADDR: B.P. 171, Bamako. **Te:** 22474. **Cable:** Radio-Mali.
L.P: Dir: Boubacar Kasse. Dir.Tec: Oumar Sidibe. Dir.Prgr: Oumar Cisse.

STATIONS: Bamako (G.C: 07.58W/12.38N) – *) Mopti (G.C: 08.02W/12.41N).

kHz	kW	kHz	kW	kHz	kW	kHz	kW
1268*	4	4835	18	7110	50	9635	18
1430v	60	5995	50	7285	18	11960	50
4783	18						

HOME SCE: MW: All times. **SW:** W 0600-0800 on 4783/4835/5995kHz; 0800-1200(Fri/Sun), 1200-1400(daily), 1400-1800(Fri/Sat/Sun) on 7110/7285/9635/11960kHz. 1800-2400(daily) on 4783/4835/5995kHz.
N. in French: 0700(W), 0900(Sun), 1200, 1300, 1800(Sat), 1830(Sun), 2015, 2230.

ANN: F: "Ici Bamako, Radiodiff. Nationale de la République du Mali émettant sur . . ." – **INT-SIG:** African music on local instrument "Cora" – **V.** by QSL-card. Rec. acc. Rp.

MAURITANIA (Islamic Rep.)

L.T: GMT – **Pr.L:** French, Arabic, Vernaculars – **E.C:** a/c 50, 220/380V (yes).

RADIODIFFUSION NATIONALE DE LA REPUBLIQUE ISLAMIQUE DE MAURITANIE (Gov.)

ADDR: B.P. 200, Nouakchott. **Te:** 2282. **Telex:** 515.
L.P: Minister of Inf. and Telecomm: Moustapha o Cheikh. Dir.Gen: M.M.O. Weddady. Dir.Tec: Lo Medoune. Dir. of Prgr: Hassene Moulage Ely.

STATIONS (G.C: 16.00W/18.08N) (3 studios).

kHz	kW	h. of tr.
1349	20	0600-0900, 1200-2305(Sun 0600-2305)
4850*	100	0600-0900, 1800-2305(Sun 0600-2305)
7245	100	1200-1800
9610**	100	0900-1200, 1600-1800(Sun 0700-2000)

*) Reported on 4845 – **) Reported on 9690 at 0700-1400.
N. in French: 0750(W), 1400, 1800(W), 1930, 2245(W). **Arabic:** 0715(W), 0900(Sun), 1200, 1300, 2030, 2200(W).

ANN: "Ici Nouakchott, Radiodiff. Nationale de la République Islamique de Mauritanie" – **INT-SIG:** Mauritanian guitar – **V.** by QSL-card. **Re.** in F, Arabic.

REGIONAL STATION: Dakhlah (ex. Villa Cisneros).
ADDR: Apt. 53, Dakhlah.
STATION: 998kHz 10kW (Standby 5kW).
HOME SCE: Relay of Nouakchott.
V. by QSL-card.

MAURITIUS

L.T: GMT+4h – **Pr.L:** English, French, Hindustani, Chinese – **EC:** a/c 50, 230/415V (yes).

MAURITIUS BROADCASTING CORPORATION

ADDR: Broadcasting House, Louis Pasteur Str, Forest Side. **Te:** 6-5001. **Cable:** Broadcast.
L.P: Dir: J.R. Delaitre. Chief Eng: N. Rambert. Prgr. Organizers: P. Ramlackhan, Y. Bahemia, B. Ahmaoli. Head of N: J. Zuel.

STATIONS (G.C: 57.31E/20.19S): 10kW – *) variable. 683kHz-4850kHz* -7200kHz-9710kHz-Standby: 819kHz.
HOME SCE: 683kHz: 0200-1830(Sat 1900); 4850kHz: 1300-1830(Sat 1900); 9710kHz: 0200-1300.
English/French: 0300-1030(Sun 0900, Tues/Thurs 0930), 1430-1830(Sat 1900). **N: French:** 0330, 0600, 0830, 1500, 1730. **English:** 0400, 1800 – **Wrp:** 0340, 1510 (F), 0410 (E) – **Indian Languages:** 0200-0300, 1030-1430.
N: 0245, 1400 – **Chinese:** Sun 0900-1030, Tues, Thurs 0930-1030.

ANN: E: "This is Mauritius Broadc Corp". F: "Ici la M.B.C., office de radiodiffusion-television de l'Ile Maurice" – **INT-SIG:** Opening tune "Extended Close" by Sam Fonteyn. Before N: "hour of Triumph" by Roger Roger – **ALF:** 10 Rupees for sets of CIF value less than 100 Rupees; 20 Rupees if CIF value is over 100 Rupees – **V.** by QSL-card. Rec. acc.

MOROCCO

L.T: GMT – **Pr.L:** Arabic, French, Spanish, English, Berber, Hassania – **E.C:** a/c 50, 115/200V (yes).

MINISTERE DES POSTES, DES TELEGRAPHS ET DES TELEPHONES

Service des Télécommunications, Rabat. **Cable:** Gentel.
L.P: Secr.Gen: M. Benabdellah.

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)

ADDR: 1, Rue Al Brihi, Rabat; B.P. 106, Laayoune. **Cable:** Radiomaroc. **Telex:** Radiomaroc 31010.

STATIONS: G.C: Rabat 05.56W/35.41N; Sebaa-Aioun 05.28W/33.54N; Tanger 05.56W/35.41N; Laayoune (former El Aaiun) 13.12W/27.10N.

HOME SCE. Prgr. A (National Netw.) Arabic: 0500-0300; *) 0500-2400; **) 1200-1400, 1900-2100.

	kHz	kW		kHz	kW
Azilal	209	800	Casablanca I	*1079	1
Oujda	*598	100	Tanger I	*1115	1
Sebaa-Aioun I	611	140	Ouarzazate	*1115	15
Laayoune	*656	50	Tanger	6100	50
Tarfaya	**710	10	Sebaa-Aioun	6190	50
Rabat I	818	25	Sebaa-Aioun	7225	10
Ksar-Essouk	*863	15	Tanger	9615	50
Agadir	*935	100	Tanger	15330	100
Marrakech I	*971	1	Tanger	15360	50
Safi I	*1025	1	Tanger	15415	100
Tetuan I	1056	20			

FM: Rabat 92.1MHz 3kW, Casablanca 96.1MHz 3kW.
N: On the h. exc. 1500-1800 when reg. prgr's are aired.
Reg. Sts: Fez, Agadir, Oujda, Marrakech and Casablanca local prgrs on MW 1500-1800. Agadir on 935kHz in Spanish: Tues, Fri 1640, Laayoune on 656kHz: 0800-0900, 1130-1330, 1800-2330.
Relayed on shortwaves (for Middle East, So. Morocco and Mauritania): 0600-1200 on 7225kHz, 1000-1400 on 15330kHz, 1100-1800 on 7225/9615/15360kHz, 1430-1700 on 15415kHz, 1800-2400 on 6100/6190/7225/9615kHz, 0000-0200 on 6100/7225/9615kHz.

Prgr. B (International Network)
French/Spanish: W 0600-0900, 1200-1500, 1700-2400; Sat 0600-0900, 1200-2400; Sun 0600-2400.

	kHz	kW		kHz	kW
Sebaa-Aioun II	701	140	Marrakech II	1151	1
Oujda II	827	100	Casablanca II	1187	1
Tanger III	1016	1	Safi II	1322	1
Rabat II	1025	5	Sebaa-Aioun	7225	1

FM: Rabat 87.9MHz 3kW, Casablanca 90.0MHz 3kW.
French: W 0700-0900, 1200-1400, 1800-2230; Sat 0700-0900, 1200-1400, 1500-1700, 1800-2230; Sun 0700-1400, 1500-1700, 1800-2230. **N:** 0745, 1245, 2000.

Prgr. C (Berbére Network): 0600-2400.

	kHz	kW		kHz	kW
Tetuan II	917	5	Rabat III	1295	1
Sebaa-Aioun III	1043	25	Casablanca III	1484	1
Agadir II	1196	20	Marrakech III	1594	1

English: 0900-1200. **Spanish:** 0600-0900. Other times in Berbére.
"Voice of Morocco" (Tanger): To Middle East, Morocco and Mauritania in Spanish/English/Berbére at 0600-0030 on 1232kHz 200kW.
ANN: French: "Ici Rabat, Radiodiff. Télévision Marocaine". Arabic: "Huna Rabat, Ithaa til al-Mamlakah Maghrebiyah". English: "This is the Moroccan Broadc. and Television System Rabat". Spanish: "Aqui Radiodiff. Television Maroqui". Voice of Morocco: French: "Ici Tanger la voix du Maroc" – **V.** by QSL-card. Rec. acc. Rp – **PUB:** Monthly magazine in Arabic.

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR: Voice of America, Washington DC 20547, USA.
STATIONS: Tangier (G.C: 05.56W/35.41N): 1×100kW, 2×50kW, 4×35kW tr's.

Nov-Feb kHz	Times
5965	0600-0800
6015	0530-0600
6060	0300-0630
6080	0400-0600
7170	0630-0700
7180	1900-2200
7190	0200-0400
7210	0600-0630
7230	0400-0600
7265	0200-0300
7295	0600-0700
9530	1600-2200
9540	1900-2130
9650	0200-0230
	0300-0400
9715	0200-0500
9735	1600-1900

Nov-Feb kHz	Times
9760	0200-0400
	0600-0630
	1830-2200
9770	1900-2130
11715	1500-1800
11760	1600-1800
11770	0630-0700
11840	1500-1800
11905	1700-1730
	1800-1830
11915	1600-2130
11945	1730-1900
15195	0600-0800
	1400-1800
15270	1400-1530
15310	0715-0745
17705	0730-0745

Mar-Apr kHz	Times	Mar-Apr kHz	Times
5965	0600-0800	9715	0200-0500
6015	0530-0600	9760	1930-2200
6060	0300-0500	9770	1930-2100
6080	0400-0500	11760	1600-1800
6095	0530-0800	11770	0630-0700
7190	0200-0400	11915	1800-2130
7220	0500-0630	11955	2000-2200
7230	0400-0600	15160	1800-1830
7260	0400-0500	15195	0600-0800
9505	1830-1900		1600-1930
9510	0630-0700	15205	1500-2000
	1900-1930	15300	1200-1600
	2100-2130	15305	1600-1800
9530	2000-2200	15310	0730-0745
9615	0400-0600	17705	0730-0745
9650	0200-0230		
	0300-0400		

D.PRGR: 0200-0800, 1200-2400 (see USA).

ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from Washington DC" – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programmes – **V.** by QSL-card. No Rp.

MOZAMBIQUE
(People's Republic of)

L.T: GMT+2h – **Pr.L:** Portuguese, Vernaculars. – **EC:** a/c 50, 220V (yes).

RADIO MOÇAMBIQUE (Gov-Comm.)

ADDR: C.P. 594 or C.P. 2000, Maputo. **Te:** 24045. **Cable:** Moradio – **L.P:** Director: R. Maguni. Chief Engineer: E. Rufino de Matos.

STATIONS: Maputo (G.C: 32.22E/25.59S):
°=Information Sce., °=alternative fq. 15285kHz.

kHz	kW	Prgr.	kHz	kW	Prgr.
737	50	A	4925	7.5	B
1079	5	C	6050	10	B
1223	5	B	6115	25	A
3210	25	A	7240	25	A
3265	100	*	9620	100	A
3338	10	B	11820	120	A
4865	25	A	15295°	100	A

FM: 98.01 MHz 5kW C prgr.

"A" PROGRAMME (National Sce) in Portuguese
737/4865/6115kHz: 0355-2210
3210kHz: 0355-0530, 1500-2210
7240kHz: 0545-1445
9620kHz: 0355-1700
11820kHz: 0500-1500
15295kHz: 0700-1300
N: 0400, 0500, 0800(W), 1030, 1400(W), 1730, 1950, 2201.
"Information Service": 1730-2000 (including **English** 1800-1815) on 737/3210/4865/6115kHz and additionally on 3265kHz.

"B" PROGRAMME in Tsonga/Portuguese
1223/4925kHz: 0355-2210
3338kHz: 0355-0530, 1500-2210
6050kHz: 0545-1445
N: in **Portuguese**; as "A" Prgr.

"C" PROGRAMME in Portuguese
1079kHz + FM: 1530-2100
N: Relay "A" Prgr. 1730, 1950.
ANN: Rádio Moçambique estúdios em Maputo a transmitir o programa "(A, B or C)" – **E:** "This is Radio Mozambique" – **INT-SIG** (including all provincial st's): A special composition of drums and orchestra. Broadcasts open and close with the National Anthem.
NB: R. Moçambique sometimes drifts from 4865kHz to 4970-4980kHz. Other freq's which may be used as alternatives include 4855 and 7105kHz. Irregular test tr's from Maputo on 917 and 1007kHz(50kW), but no regular sce. planned

PROVINCIAL STATIONS

ADDR: Nampula: E. Provincial de Nampula, C.P. 93, Nampula (G.C: 39.13E/15.07S). **Quelimane:** E. Provincial da Zambezia, C.P. 33, Quelimane (G.C: 36.53E/17.52E). **Pemba:** E. Provincial de Cabo Delgado, C.P. 45, Pemba (G.C: 40.45E/13.02S. **Tete:** E. Provincial de Tete, C.P. 384, Tete. **Lichinga:** E. Provincial do Niassa, C.P. 171, Lichinga. **Beira:** Complexo Beira/Dondo, C.P. 1781, Beira (G.C. (Dondo): 34.52E/18.49S. **Inhambane:** E. Provincial de Inhambane, C.P. 196, Inhambane. **Chimoio:** E. Provincial da Maníca, C.P. 390, Chimoio.

STATIONS	kHz	kW		kHz	kW
Inhambane	557	5	Beira	3370	10
Lichinga	782	5	Beira	4755	25/10
Chimoio	836	5	Beira	4815	10/25
Beira	872	50	Beira	4895	25/100
Quelimane	935	0.3	Quelimane	4902v	0.25
Tete	1160	5	Pemba	4923	0.25
Nampula	1223	5	Nampula	4946v	7.5/5
Nampula	1358v	0.25	Nampula	4958	0.25
Beira	1430	5	Beira	6090	25
Pemba	1493	5	Nampula	7140v	5
Quelimane	3218	0.25	Quelimane	7150v	0.25
Beira	3235	10	Pemba	7175v	0.25
Beira	3275	100	Nampula	7253	0.25
Nampula	3355	7.5	Beira	9635	100
Nampula	3366v	0.25			

FM: Nampula 98.0MHz 0.03kW.

BEIRA (Complexo Beira-Dondo)
"A" Programme in Portuguese 1600-2100 on 1430kHz.
N: 1730.
"B" Programme in Vernaculars
Channel "A" in Chinhungue 0355-0650 on 872,4755kHz, 1230-1520 on 872,4815kHz. In **Chuabo** 0650-0940 on 872,4815kHz, 1520-1810 on 872,3370kHz. In **Chissena** 0940-1230 on 872,4755kHz, 1810-2100 on 872,3235kHz.
N. in Portuguese: 0400, 0500, 1030, 1400(W), 1730, 1950.
Channel "B" in Swahili 0355-0530, 1830-2000 on 4895kHz. In **Nyanja** 0530-0645 on 4895kHz, 1500-1700 on 3275kHz. In **Makonde** 0900-1045 on 9635kHz, 1700-1830 on 4895kHz. In **Ajaua** 0530-0645 on 4895kHz, 1025-1215 on 6090kHz.
N. in Portuguese: 0400, 1030, 1730.
"Information Service" (relay Maputo): 1730-2000 on 3275kHz.
NB: Other freq's used by Beira as alternatives or seasonal changes include: 4795/4935/6005/6025/6075/6130/6160kHz.

CHIMOIO (E. Provincial da Maníca)
In **Portuguese/Chissena** 1000-1200, 1600-2000 on 836kHz – **N:** 1030, 1730, 1950.

INHAMBANE (E. Provincial de Inhambane)
In **Portuguese/Vernaculars** 1000-1200, 1600-2015(Sun 557kHz – **N:** 1030, 1730, 1950.

LICHINGA (E. Provincial do Niassa)
In **Portuguese/Vernaculars** 1000-1200, 1600-2015 (Sun 1000-2015) on 782kHz – **N:** 1030, 1730, 1950.

NAMPULA (E. Provincial de Nampula)
"A" Programme in Portuguese 0355-0700, 0930-1230 (Sat/Sun 0355-1500) on 1223/4958/7253kHz + FM, 1500-2215 on 1223/3366/4958kHz + FM.
N: 0400, 0500, 1030, 1730, 1950, 2201.
"B" Programme in Macua 1000-1200(Sun 0600-1200) on 1358/4946/7140kHz, 1630-2015 on 1358/3355/4946kHz – **N:** 1030, 1730, 1950.

PEMBA (E. Provincial de Cabo Delgado)
In **Portuguese** 0430-0530(Sun 0600-0930), 1030-1200 on 1493/4923/7175kHz, 1600(Wed 1830, Sun 1730)-2005 on 1493/4923kHz. In **Macua do Medo** 0930-1030(Sun) on 1493/4923/7175kHz, 1600-1830(Wed), 1600-1730(Sun) on 1493/4923kHz – **N:** 0500(W), 1030, 1730, 1950.
NB: All news from Prov. st's are relayed from Maputo.
ANN: Rádio Moçambique dos seus estudios em (name of town) a transmitir em (wavelength)" – **INT.SIG:** As Maputo – **V.** by QSL-card. Reports to provincial st's should be sent to Maputo – **PUB:** Schedules available upon request.

NIGER

L.T.: GMT+1h – **Pr.L:** French, 5 Vernaculars – **EC:** a/c 50, 220/380V (yes).

OFFICE DE RADIODIFFUSION-TELEVISION DU NIGER ORTN (Gov.)

ADDR: B.P. 361, Niamey. **Te:** 722272. **Cable:** ORTN. **Telex:** 5229 NI.

STATIONS: *Niamey (G.C.: 02.06E/13.30N). a) Téra, b) Zinder, c) N'Guigmi, d) Tillabéry, e) Mainé Soroa, f) Tahoua, g) Gouré, h) Gaya, i) In'gall (3 studios).

kHz	kW	Netw.	kHz	kW	Netw.
1210*	1	II+III	1595a	0.1	I
1331e	0.1	relayII	3215i		(June-Aug only)
1484d	0.1	relay I	3260*	4	I
1570*	1	I	5020*	20	II
1594g	0.1	relay II	6060*	4	I+III
1594h	0.1	relay I	7155*	4/30	I+III
1595b	0.1	relay II	9575*	4	I+III
1595c	0.1	I	9705*	20	II

HOME SCE: Netw. I: On 1570kHz all times; W 0530-0630 on 3260kHz, 1130(Sun 0630)-1400(Sat/Sun 1630) on 6060/7155kHz, 1700(Sat/Sun 1630)-2200(Sat 2300) on 3260kHz.

Netw. II: W 1130-1400, 1700-2200, Sat/Sun 0630-2200(Sat 2300) on 1210kHz; W 0530-0630 on 5020kHz; 1130-1400(Sat 1630) on 9575/9705kHz; 1700(Sat/Sun 1630)-2200(Sat 2300 on 5020kHz; Sun 0630-1630 on 9575/9705kHz.

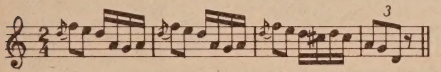
Netw. III: W 0630-1130 on 1210/6060/7155kHz.

Netw. IV: W 1700-2200(Sat 2300) on 1595kHz.

N. in French: W 0600, 1200, 1800, 1900, 2150, Sun 0900.

English: Tues/Sat 1715.

ANN: At opening and close down "La Nigerienne". Local flute and "Ici la Voix du Sahel" – **INT-SIG:** Local Flute –



V. by QSL-card or letter. Rp.

NIGERIA (Republic of)

L.T: GMT+1h – **Pr.L:** English, Yoruba, Hausa, Ibo+12 local languages – **E.C:** a/c 50, 230/400V (yes)

DIRECTOR OF TELECOMMUNICATIONS

International Relations Division, Post and Telecommunications Dept, Private Mail Bag 12557, Lagos.
Cable: Dintrel.
L.P: Dir.Gen: T.O. Akindele.

STATIONS: Mediumwaves

	kHz	kW	Station+h. of tr.
6)	593	10	Jaji, Kaduna: 0900-1345, 1745-2315
6)	593	250	Jaji, Kaduna: 0900-1345, 1745-2315
13)	602	10	Abafon: 0442-2305
3)	638	5	Benin: 0430-1245, 1350-2305
13)	656	10	Ibadan: 0442-2305
4)	809		Ilorin: 0430-2305
14)	953	10	Enugu: 0500-2205
12)	980	10	Port-Harcourt: 0430-2305
1)	1088	2×10	Lagos: 0430-2305
10)	1320	10	Enugu: 0430-2305(exc. Thurs 0800-1000)
2)	1358	10	Ibadan: 0430-2305
7)	1376	1	Kano: 0430-2305
11)	1397	0.25	Calabar: 0430-2305
2)	1397	0.25	Ijebu-Ode: 0430-2305
4)	1397	0.25	Ilorin: 0430-2305
9)	1397	0.25	Jos: 0430-2305
8)	1397	0.25	Maiduguri: 0430-2305
12)	1397	0.25	Port-Harcourt: 0430-2305
5)	1397	0.25	Sokoto: 0430-2305
3)	1397	0.25	Warri: 0430-1245, 1350-2305

Shortwaves

	kW	Station+h. of tr.
2) 3204	10	Ibadan: 0430-0730, 1430-2305
1) 4990	10	Lagos: 0430-1000, 1500-2305
3) 5965	10	Benin: 0430-1245, 1350-2305
10) 6025	10	Enugu: 0430-2305(not Mon 0800-1000)
13) 6050	10	Ibadan: 0442-2305
6) 6090	250	Jaji, Kaduna: 0430-2315
8) 6100	10	Maiduguri: 0430-2305
11) 6145	10	Calabar: 0430-2305
5) 6195	10	Sokoto: 0430-2305
4) 7145		Ilorin: 0430-2305
14) 7235	10	Enugu: 0500-2205
1) 7255	10	Lagos: 0735-1815
2) 7285	1/10	Ibadan: 0430-2305
6) 9570	10	Jaji, Kaduna: 0430-2315

FM: Lagos 92.9MHz+Links: Nat. Sogunle Prgr. 96.1/98.1MHz; External Prgr: 88.1/80.1/77.5MHz.

Addresses and other information

1) **THE NIGERIAN BROADCASTING CORPORATION** (Statutory Corporation)
Addr: Private Bag 12504, Ikoyi, Lagos. **Te:** 51480. **Cable:** Broadcasts. **Telex:** 21484 NBC TV NG.
L.P: Dir.Gen: C.O. Kolade Dep.Dir.Gen(Prgr): H.N.O. Agedah. Dep.Dir.Gen(States Sces): M.A. Olumide. Dep.Dir.Gen(Finance and Adm): J.O. Elekolusi. Dep.Dir.Gen(Tech.Sces): G.Bako.
Station: Lagos (Sogunle): G.C: 03.21E/06.34N. **N.** in English: On the h (exc. 0800) and 1230(Fri). Vernaculars: 0703, 0800, 1430(W), 1545(Sat 1515), 1700 (exc. Sat), 1815, 1903(W).
Int-Sig: Talking drum – **V.** by QSL-card. Re. to Chief Eng – **F.Pl:** 20kW on 1088kHz; SW: 2×100kW at Katabu (No.Ea. of Kaduna)+1×50kW at Ikorodu (directed towards Katabu).
Regional stations (exc. 6) and 13)
2) Ife Road, Ibadan – G.C: 03.45EE/07.23N. **N.** in English: W 0530, 1430, 1900. Yoruba: W 1600(Sat 1440), 1910.
Int-Sig: Talking drum – **F.Pl:** 575kHz 50kW.
3) Benin – **N.** in English: W 0530, 1430, 1900. Edo/Igbo: 1445(W). Ijaw/Isoko: 1603Mon-Fri). Itsekiri/Urhobo: 1910(W). **V.** by QSL-card – **F.Pl:** 775kHz 25kW.
4) Ilorin – Sometimes rel. Sokoto (5).
5) P.O. Box 156, Sokoto – G.C: 05.16E/13.04N.
D.Prgr: Relays Lagos 0903-1357 – **N.** in English: (rel. Lagos); 0500, 0600, 0700, 0900, 1500, 1600(Sun), 1800, 1900(English/Hausa)(W), 1945(English, Hausa, Efik)(W), 2100, 2200. Vernaculars: 0800, 1545, 1700. **V.** by letter – **F.Pl:** 550kHz 40kW+1×10kW SW-tr. at Shuni (So.Ea. of Sokoto).
6) P.O. Box 250, Kaduna. **Cable:** Radionorth. **Te:** 22294. **Telex:** 71114.
L.P: Man.Dir: Dahiru Modibbo. Chief Eng: Abullahi M. Sanusi.
Station: Jaji – G.C: 07.33E/10.45N. **Home Sce** in English and Hausa. **N.** in English: 0530, 1100, 1430, 1700, 2000. Hausa: 0600, 1230, 1530, 1830, 2100.
Ann: "This is Radio Television Kaduna" – **Int-Sig:** Bauchi drums – **V.** by letter.
7) Kano – **F.Pl:** 728kHz 20kW.
8) Maiduguri – G.C: 13.55E/11.53N. **N.** in English and Fulfulde: W 1600, 1900. Hausa/Kanuri: W 1630, 1930. **V.** by letter – **F.Pl:** 755kHz 30kW+1×10kW SW-tr.
9) Jos – **N.** in English and Hausa: W 0530, 1415(Sat 1430), 1900(Mon-Fri), 1930. Idoma/Tio: 1600(Mon-Fri), 2000(W). Edo/Efik/Fulfulde: 1545(Tues) – **F.Pl:** 1313kHz 10kW+1×10kW SW-tr. at Bukuru.
10) **Addr:** Broadcasting House, Onitsha Road, Enugu, G.C: 07.27E/06.27N. **N.** in English: W 0530, 1430, 1900. Igbo: W 0730, 1910.
Int-Sig: Snake drum and xylophone bass – **V.** by QSL-card – **F.Pl:** 827kHz 30kW.
11) Calabar – G.C: 08.19E/04.58N. **N.** in English: W 0545, 1430, 1900. Efik: W 1600, 1910. **V.** by QSL-card – **F.Pl:** 1367kHz 10kW+1×10kW SW-tr. at Ikot Inim (near Calabar).
12) Port-Harcourt – **F.Pl:** 1×10kW SW-tr.
13) P.O. Box 1460, Ibadan. **Cable:** Radivision. **Te:** 24381 – G.C: 03.55E/07.23N. **N.** in English: 0530, 0600(BBC), 0700, 0900(W), 1000(W), 1100(W), 1200, 1300(BBC), 1400(W), 1500(W), 1600(W), 1700, 1800(BBC), 2000, 2100(W), 2200(W), 2255(W), 2300(Sun) – **N.** in Yoruba, Hausa: 0800, 1900.

Ann: "This is the Western Nigeria Broadc. Sce" or "This is WNBS, Ibadan" – **Int-Sig:** Chimes 2 notes only (G and E) – **V.** by QSL-card or letter.

14) Radio/Television House, P.O. Box 350, Enugu. G.C: 07.27E/06.27N. **N:** 0510, 0530 and every h. on the h. Ibo N: 1700, 2000.
Int-Sig: Drum beat – **V.** by letter. Rp. to Dir. of Prgrs.

ANN used by all sts (exc. 6) and 13): "This is the Nigerian Broadcasting Corpo". Lagos: "This is R. Nigeria (Sokoto, Enugu, Ibadan etc)".

FOREIGN SERVICE
STATIONS: Ikorodu: 100kW (G.C: 03.56E/07.23N).

kHz	kHz	kHz	kHz
7275	11900	15120	15185

I=We. Africa; II=Ea. Africa/Middle East; III=Ce. and So. Africa. IV=No. Africa/Mediterranean/Europe.

English	kHz/Beam	Area	French	kHz/Beam	Area
0645-0835	7275(nd)	I/II	1930-2030	7275(nd)	I
	15120(5°)	IV		15120(65°)	II
1530-1700	7275(nd)	I		15185(5°)	IV
	15120(65°)	II	**Arabic**		
	15185(125°)	III	1700-1800	7275(nd)	I
1800-1930	7275(nd)	I		15120(65°)	II
	15185(125°)	III		15185(5°)	IV
French			**Hausa**		
1330-1430	7275(nd)	I	1430-1530	7275(nd)	I
	15120(65°)	II		15185(125°)	III
	15185(125°)	III			

N. in English: 0700, 0730, 1530, 1630, 1830, 1900. **French:** 1330, 1930. **Hausa:** 1430. **Arabic:** 1700. For further prgr. details refer to "NBC Radio and TV Times" or "Daily Times".

ANN: "This is the Voice of Nigeria, the International Sce. of the Nigerian Broadc. Corpo". – **INT-SIG:** Bells open broadcast followed by Int-Sig. as for Nat. Prgr. accompanied by rapid drum beating. Sign off with Nat. Anthem – **V.** by QSL-card. Re. will be welcomed by Chief Engineer –

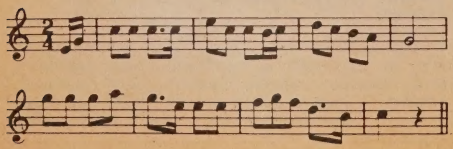
PUB: Monthly transmission schedules are distributed free of charge. The Nigerian Radio Times available on subscription basis. **F.Pl:** 3×500kW SW-trs at Ikorodu.

REUNION

L.T: GMT+4h – **Pr.L:** French – **EC:** a/c 50(yes).

FRANCE REGIONS 3 (FR-3)-REUNION

ADDR: Société de Prgr – France Regions, F.R.3, 97405 St-Denis. **Te:** 868.
L.P: Chief of Sce's: I. Colonne. Dir.Tec: R. Carrie. Dir.N: J.V. Dolor.
STATIONS (G.C: 55.30E/20.55S) (St-Denis):
602kHz 8kW – 665kHz 4kW.
HOME SCE. in French: 0230(Sun 0300)-1900(Sat 2030).
N: W 0230, 0300, 0400, 0600°, 0830, 1200°, 1600, 1800°; Sun 0400, 0830, 1600, 1800° – °) relay France Inter.
ANN: "Société de Prgr – France Regions, station de Reunión" – **V.** by letter. Rp – **INT-SIG:** "Madina" (Reunion Folklore) played on guitar – **ALF:** Frcs. 30.



RHODESIA

L.T: GMT+2h – **Pr.L:** English, Shona, N'debele, Nyanja – **EC:** a/c 50, 230/240V (yes).

RHODESIA BROADCASTING CORPORATION
(Indep. Statutory Body) (Comm.)
ADDR: P.O. Box HG 444, Highlands, Salisbury; African Sce: Box 9048, Harari, Salisbury; Box 2279, Bulawayo; Box 52, Gwelo. **Te:** 707222. **Cable:** Broadcasts.
L.P: Chmn. of Board: D.T.M. Williams. Dir.Gen: H.G. Ward. Dep.Dir.Gen.(Admin): G. Openshaw. (Prgr): J.B. Baldwin. Dir. African Sce: B.A.J. Baker. Chief Eng: B. O'Brien.
STATIONS: G=General Sce; A=African Sce; RC=Regional Comm. Sce.

Mediumwave

	kHz	kW	Sce		kHz	kW	Sce
Salisbury	584	2	G	Umtali	980	1	G/RC
Gwelo	611	2	G	Bulawayo	1241	1	G/RC
Bulawayo	683	2	G	Salisbury	1255	1	G/RC
Gwelo	710	2	A	Bulawayo	1340	2	A
Gatooma	791	1	G	Que Que	1367	1	G
Ft. Victoria	854	1	G				
Salisbury	890	2	A				

FM: 60kW exc. *=6kW.

Service	G	A
Salisbury	*99.6	95.6
Lomagundi, Mazoe, Bindura	92.2	96.2
Umtali	*96.0	92.1
East District, Inyanga	96.6	92.7
Wankie	92.3	96.3
Victoria Falls	*93.1	
Ft. Victoria	*98.9	*95.0
Chiredzi, Chipinga	92.8	
Karoi and Kariba		98.4
Mt. Darwin and Shamva		97.0
Gatooma and Midlands		93.8
Bulawayo		*94.0
Gwelo		95.3

Shortwaves: (G.C: Gwelo 29.51E/19.26S).

kHz	kW	Sce	kHz	kW	Sce
2336	10	A	4828a	10	A
2425	20	G	5016a	20	G
3306	100	A	5975	100	A
3396	100	G	6020	100	G

a) local winter months only.

HOME SCE: General Sce (English): W 0355-2200, Sun 0458-2105 on 584/611/683/791/854/1367kHz + FM. On 980/1241/1255kHz: As 584kHz exc. for Reg. Comm. Sce. **On 2425kHz:** 0355-0445(W), 1700-2200(Sun 2105). **On 3396kHz:** 0355(Sun 0500)-0630, 1505-2200. **On 5016kHz** (March-Sept): 0500-1000, 1400-1600. **On 6020kHz:** 0635-1500.
N: W 0400, 0500, 0600*, 0700**, 0800**, 0900**, 1010, 1115, 1300**, 1400**, 1600, 1745, 1900, 2000, 2100: Sun 0500, 0600, 0900, 1115, 1600, 1745, 2000, 2100.
*) SABC; **) Mon-Fri.
African Sce (in Shona, N'debele, Nyanja and English): W 0328-2015(Sat 2200); Sun 0458-2015 on MW+FM.
On 2336kHz: 0328-0430(W), 1700-2015(Sat 2200). **On 3306kHz:** 0328-0630, 1530-2015(Sat 2200). **On 4828kHz** (March-Sept): 0500-1000, 1400-1600. **On 5975kHz:** 0635-1500.
N: in English (relay General Sce): 0400(W), 0500(Sun), 0900(Sun), 1115, 1600, 1745. Own N: 1000(W).
Relay Gen. Sce: On 890/1340kHz/FM 2015-2200(Sun 2115). **N:** 2100.

Regional Comm. Sce's (in English):
R. Jacaranda (Salisbury) on 1255kHz: Mon-Fri 0355-2200, Sat/Sun 0500-2105 and (Umtali) on 980kHz: W 1430-2200, Sun 0500-2105. **R. Matopos** (Bulawayo) on 1241kHz: Mon-Fri 0355-2200, Sat/Sun 0500-2105.
N: W 1500(exc. Sat), 1600(GS), 1700, 1900, 2000(GS), 2100(exc. Sat); Sun as GS(exc. 1745).
ANN: E. Sce: "This is the Rhodesia Broadc. Corpo" or "This is R. Rhodesia" or "This is the RBC transmitting from Salisbury". African Sce: "This is the African Sce of the

RBC calling from Harari" or "You are tuned to Harari" – **INT-SIG:** 5 min's prior to opening General Sce peal of Church Bells; 5 min's prior to opening African Sce Kalimba Xylophone, drums – **V.** by QSL-card – **F.PL:** Nat. Comm. Sce will replace Reg. Comm. Sce's in 1977 – Country name: ZIMBABWE from Oct. 1978 – **PUB:** "Look and Listen" and "Radio Post" (weekly).

VOICE OF FREE AFRICA

ADDR: P.O. Box HG 444, Highlands, Salisbury.
STATION: Gwelo 998kHz 100kW.
D.PRGR: 1700-1800 in Portuguese and vernacular to Mozambique.
ANN: Portuguese "Esta é a Voz da Africa livre".

RWANDA (Republic of)

L.T: GMT+2h – **Pr.L:** Kinyarwanda, Swahili, French, English.

DIRECTION GENERALE DES TELECOMMUNICATIONS

B.P. 720, Kigali. **Cable:** Gentel.

RADIODIFF. DE LA REPUBLIQUE RWANDAISE (Gov.)

ADDR: B.P. 83, Kigali. **Te:** 5665. **Cable:** Radiorwanda.
L.P: Dir. Sued Amri Ismael.
STATION (G.C: 30.04E/01.57S): 3330kHz 5kW, 6055kHz 50kW, FM 96.98MHz 3kW, 98.78MHz 50W (1 studio).
HOME SCE. in Kinyarwanda, Swahili, French: 0300-0600(Sat/Sun 0700), 0900-1200(Sat/Sun 1330), 1330-2100 (on all freq's).
N. in French: 0430, 0530, 1115, 1800, 2000. **N. in Kinyarwanda:** 0400, 0500, 1045, 1600, 1700. **N. in Swahili:** 0335, 1445.
ANN: F: "Ici Kigali, Station Nationale de Radiodiff. de la République Rwandaise" or "Ici R. Rwanda". Swahili: "Hii ni idhaa taifa ya R. Rwanda" – **INT-SIG:** Inanga (local harps) – **V.** by QSL-card. Rp. Recordings accepted – **PUB:** Prgr. schedule free.

DEUTSCHE WELLE RELAY STATION AFRICA

STATIONS: Kigali 2×250kW tr's (G.C: 30.07E/01.53S):

kHz	kHz	kHz	kHz	kHz
6160	9565	11785	15410	17825
7225	9700	11795	17765	21540
7285	9735	11965		

ANN: At opening and close down in F: "Ici le Deutsche Welle station relais Kigali, Rwanda".
For prgr. details see D. Welle, Germany – **V.** by QSL-card.

SÃO TOME E PRINCIPE

L.T: GMT – **Pr.L:** Portuguese.

RADIO NACIONAL DE S. TOME E PRINCIPE (Gov.)

ADDR: Caixa Postal 44, São Tome. **Te:** 530. **Cable:** Emissora.
STATIONS: 759kHz 5kW – 944kHz 10/20kW – 4807.5kHz 10kW.
FM: 90.5MHz 0.05kW.
HOME SCE. in Portuguese: 0530-2300.
N: 0600, 0700, 1000, 1200, 1400, 1600, 1745, 1930, 2200.
ANN: "Aqui São Tome, transmite R. Nacional da República Democrática de S. Tomé e Principe" – **INT-SIG:** 1 note Gong; Guitar – **V.** by QSL-card. Rp – **F.PL:** 10kW on 759kHz and 100kW on 944kHz – **ALF:** Esc.150,-.

SENEGAL (Republic)

L.T: GMT – **Pr.L:** French+6 local languages – **EC:** a/c 50, 127/220V (yes).

OFFICE DE POSTES ET TELECOMMUNICATIONS

Dakar.
L.P: Dir: M.N'Daraw Cisse.

RADIOFFUSION DU SENEGAL (Gov.)

ADDR: B.P. 1765, Dakar. **Te:** 32072. **Cable:** Radio Sénégal.
STATIONS: (G.C: 1726W/14.39N):

kHz	kW	Netw	Times
764	200	II	0600-2400
1304	10	I	0600-2400
1367	1	II	0600-2400
4890	25	II	0600-0800, 1800-2400
7170	25	II	1000-1800
7210	100	I	0600-1800
11895	100	I	1000-2400

R. SENEGAL-INTER. French: W 0600-0800, 1200-1400(Sat 1800), 1900-2400; Sun 0800-1800, 1900-2400. **Portuguese:** 1800-1820. **Arabic:** 1820-1840; **English:** 1840-1900.
R. SENEGAL II: French & Vernaculars: W 0600-0800, 1200-1400(Sat 1800), 1800-2400; Sun 0800-2400.
N. in French (R. Sénégal I+II): W 0602, 0700, 0755, 1000, 1200, 1300, 1600(not Sat), 1800(Sat), 2000, 2215, 2355; Sun 0800, 1000, 1300, 2000, 2215, 2355.
St. Louis (Senegal III) B.P. 376, St. Louis, 1421kHz 1kW: W 0600-0800, 1200-1400, 1815-2230; 6045kHz 4kW: 1000-1800 (G.C: 16.29W/16.00N).
Ziguinchor (Senegal IV), B.P. 173, Ziguinchor 3336kHz 4kW: 0600-0800, 1800-2400; 6180kHz 4kW: 1200-1400 (G.C: 16.18W/12.35N).
Kaolack (Senegal V) on 1286kHz 5kW: 0600-0800, 1200-1400, 1800-2230 (rep. on 1304kHz).
Tambacounda (Senegal VI) 1502kHz 1kW: 0600-0800, 1200-1400, 1800-2230.
Reg. st's relaying R. Senegal II:

Linguère	1322kHz	1kW:	0600-2230
Podor	809kHz	1kW:	0600-2200
Matam	962kHz	1kW:	0600-2200

ANN: F: "Ici R. Sénégal émettant de Dakar". E: "This is R. Senegal broadc. from Dakar" – **INT-SIG:** Melody on "Khora" (local harp) – **V.** by QSL-card. Rp.

SEYCHELLES

L.T: GMT+4h – **Pr.L:** English, French, Creole.

RADIO SEYCHELLES (Gov-Comm.)

ADDR: Box 321, Union Vale, Victoria, Mahé. **Te:** 2541.
L.P: Mgr: E.C. Passmore. Asst.Eng: J.J. Palmyre. Exec.Officer: Mrs. E. Etienne. Prgr.Officer: G.G.G. Confait.
STATION: ZCQ3 1331kHz 10kW (3 studios)
HOME SCE: Mon-Fri 0200-1000, 1400-1715; Sat 0300-0500, 1100-1715; Sun 0430-0600, 0800-0940, 1100-1300, 1430-1715.
N. in English: 0300(BBC), 0900(BBC), 1400(Mon-Fri), 1600(BBC), 1615(Mon-Fri).
N. in Creole: 0800(Mon-Fri), 1415(Mon-Fri), 1620(Mon-Fri), 1640(Sat).
ANN: E: "This is R. Seychelless". F. and Creole: "Ici Radio Seychelles" – **INT-SIG:** "High cycle sound followed by local string instrument "Bomme" – **V.** by letter. **PUB:** Prgr. schedule free.

Remind your friend about the new edition of the WRTH!

He'll be grateful.

FAR EAST BROADCASTING ASSOCIATION (FEBA) (Missionary)

ADDR: Box 284, Mahé. **Te:** 2749. **Cable:** FEBCOM.
L.P: Field Dir: L.J. Wheatley. Dir.Prgr's: G.M. Cook.

STATIONS (G.C: 55.28E/04.36S): 1×8kw, 1×80kW, 1×50kW, 1×100kW tr's.

kHz	Times	Beam	kHz	Times	Beam
5995	0045-0145	40°	11945	1355-1530	40°
9510	1700-1905	340°	15160	0630-0830	40°
9605	0215-0300	40°		0600-0830b	40°
9665	0315-0415	270°	15185	0445-0545	340°
11785	0200-0300a	40°	15270	0845-0930	208°
11810	1130-1235b	40°	15325	1130-1235b	40°
11870	1235-1355	40°	15330	1235-1650	40°
	1530-1650	40°			

a) Sun 0405 – b) Sun only.

D.PRGRS: To South Asia: 0045-0330(Sat-Mon 0345), 0600(Mon-Sat 0630)-0830; 1230(Mon-Sat 1245)-1650.

0030-0115(Sun)	Sinhala	1240-1310(Sun)	Sinhala
0045-0100	Sinhala	1255-1310	Sinhala
0100-0145	Tamil	1310-1340	Tamil
0145-0215(Sun)	Oriya	1340-1355	Malayalam
0200-0230	Hindi	1400-1415	
0215-0230	Kannada	(Wed-Fri)	Pushto
0230-0300	Telugu	(Sat)	Dari
0230-0245	Urdu	(Sun-Tues)	Farsi
0245-0300	Urdu/Punjabi	1415-1430	Urdu
0305-0405(Sun)	Marathi	1430-1500	Hindi
0600-0830(Sun)	**English**	1500-1515	Marathi
0630-0830(W)	**English**	1515-1530	Gujarati
1130-1230(Sun)	Gujarati	1530-1650	**English**

To North-East Africa and West Asia: 1700-1730 Farsi, 1730-1745 **English,** 1745-1800(Sun/Thurs/Fri/Sat) Somali, (Mon/Wed) Afar, (Tues) **English,** 1805-1905 Arabic.
To East Africa: 0315-0330 Swahili, 0330-0415 English.
To Indian Ocean Islands: 0845-0900 Hindi, 0900-0930 French.
DX-Prgr: Alt.Sat 1240 to South Asia.

ANN: "This is the Far East Broadc. Association transmitting from Seychelles in the Indian Ocean" – **INT-SIG:** "What a friend we have in Jesus" (Xylophone) and spoken ID. prgr's open with "How Great Thou Art" (vocal) – **V.** by QSL-card. IRC's appreciated, although not required. 3 IRC's required for airmail reply. Rec. acc – **PUB:** "Programme Guide" (half-yearly).

SIERRA LEONE

L.T: GMT – Pr.L: English, Mende, Temne, Krio, Limba – **EC:** a/c 50, 230/440V (yes).

SIERRA LEONE BROADCASTING SERVICE (Gov.)

ADDR: New England, Freetown. **Te:** 40311. **Cable:** Broadcasts.
L.P: Dir. of Broadc: Joseph W.O. Findlay, Jr. Chief Eng: A.C. Ellis.

STATIONS: Waterloo (G.C. 13.05W/08.17N): 250kW. Goderich (G.C: 13.14W/08.30N): 10/50kW (4 studios) 1205kHz 10kW: see below.
3316kHz 50kW: 0600-1000, 1230-2335(Sat 0005),
5980kHz 10/250kW: 0745-1015, 1230-1740.
HOME SCE: W 0600-1000, 1230-2335(Sat 0005); Sun 0600-2400.
N. in English: 0630(+Vernaculars), 0700(BBC), 1100(Sun-BBC), 1300(BBC), 1530, 1600(VOA), 1700(Moscow), 1800(Sun), 2000, 2100(W), 2200, 2330(exc. Sat), 2400(Sat).
French: Tues 2230-2330.

ANN: "This is the Sierra Leone Broadc. Sce." or "You are tuned to Freetown" – **INT-SIG:** 5 notes chime followed by "The Rain is Coming" played by Military band – **V.** by QSL-card or letter. Rp. – **ALF:** Leones 5.00.

SOMALIA (Dem. Rep.)

L.T: GMT+3h – **Pr.L:** Somali – **E.C:** a/c 50, 230V (no).

MINISTRY OF POST AND TELECOMMUNICATIONS

Mogadiscio. **Cable:** Dirgen.
L.P: Dir.Gen: M. Ahmed Abdilleh.

SOMALI BROADCASTING SERVICE. (Gov.) R. MOGADISHU

ADDR: Ministry of Inf. and National Guidance, Private Postbag, Mogadishu. **Te:** 2455.

STATIONS (G.C: 45.06E/02.06N): 963kHz 150kW – 6095kHz 50kW – 9585kHz 50kW.
HOME SCE. in Somali: On MW: All times. On 6095kHz: 0300-0500(Fri 0400-0600), 1030(Fri 1000)-2100. On 9585kHz: 0300-1000(irr.), 1930-2100.
N: 0330, 0450, 1115, 1400, 1700, 1850, 1950, 2045.
FOREIGN SCE. On 9585kHz. Arabic 1000-1100, 1630-1930; **English** 1100-1130; Swahili 1430-1530.
ANN: "Halkan wa R. Muqdisho". Arabic: "Huna Mogadishu izaa' til Jumhuriyah Demokradiyah Soomaaliya". English: "This is R. Mogadishu, the Voice of the Somali Democratic Republic". French: "Ici R. Mogadishu" – **INT-SIG:** Home Sce: Opens and closes with Nat. Anthem. Foreign Sce: Somali music – **V.** by QSL-card. Rec. Rp. (3 IRC's).

RADIO HARGEISA (Reg. St.)

ADDR: P.O. Box 14, Hargeisa. **Te:** 155. **Cable:** Information.

STATIONS (G.C: 44.03E/09.33N): 720kHz* 10kW – 11645kHz** 5kW.
*) drifts to 7160kHz; **) drifts to 11480kHz.
HOME SCE. in Somali: 1100-1330, 1500-1630. **N. in Somali:** 1200, 1530.
ANN: "Halkan wa R. Hargeisa, odki Gumhoriyada Demokratiya Somaliya" – **INT-SIG:** March – **V.** by QSL-card.
F.PL: 1×1 and 1×25kW SW-tr's.

SOUTH AFRICA (Republic)

L.T: GMT+2h – **Pr.L:** English, Afrikaans, N.&S. Sotho, Zulu, Tswana, Xhosa, Venda, Tsonga – **E.C:** a/c 50, 220/380V (yes) +d/c.

THE POSTMASTER GENERAL

ADDR: Telecommunication Operating, Room 400, Electro Bldg, Bosman Str, Pretoria 0002. **Cable:** Radiogen.
L.P: Postmaster Gen: L.F. Rive.

SOUTH AFRICAN BROADCASTING CORPORATION (SABC)

ADDR (Head Office): Broadcasting Centre, Auckland Park, Johannesburg 2092/P.O. Box 8606, Johannesburg 2000. **Te:** 714-0111. **Cable:** Broadcast.
Reg. Addresses: P.O. Box 4559, Johannesburg 2000; Radio 5, P.O. Box 4301, Johannesburg 2000; P.O. Box 2551, Cape Town 8000; P.O. Box 1588, Durban 4000; P.O. Box 563, Bloemfontein 9300; P.O. Box 962, Pretoria 0001; P.O. Box 7054, Port Elizabeth 6000; P.O. Box 395, Pietersburg 0700.
L.P: Chmn: Dr. P.J. Meyer. Dir.Gen: J.N. Swanepoel. Dep.Dir.Gen(Prgr): Dr. J.H.T. Schutte. Dep. Dir.Gen.(Mngm): G.J. Yssel. Dir. Radio Prgrs: S.M. de Villiers. Dir.Adm: G.A. de Bruyn. Dir.Comm.Sces: H.J. Howell. Dir.News: J.E. van Zyl. Dir.Tech.Sces: D.G.H. Mills. Dir.TVPrgrs: P.F.M. de Bruyn. Head Music: Dr. A.C. Hartman. Head Eng.Sces: A.H. Falkiner. Head Nguni Sces: B.J. Steyn. Head Bantu TV Prgrs: T. van Heerden. Head Springbok R.&Adv: J.G.C. Siebert.Head Ext.Sces: J.T. Greyling. Head Data Processing Automation & Listener Research: D.J.L. Pretorius. Head Adm: J.E. van Zyl. Head Afr.Sces: M. van Tonder. Head Finance: W.J.J. Harmse. Head Personnel Adm: D. Esterhuyse. Head Planning: P.J. Theron. Head TV News & Current Affairs: J.J.L. Hamman. Head Reg.Sces + Radio 5: R.L. Boshoff. Head

Sotho Sces: H.J.P. Lubbe. Head Radio News: C. van der Merwe. Sen.Chief Eng: N. Smuts. Chief Eng. Transmitters: A.D. Blakemore. Chief Eng. Studios: H.P. Bartel. Board Secr. & Head Publ. Relations: H.P.N. Jordaan. Head Eng. TV Prgrs: R.M. Knox-Grant. Head Afr. TV Prgrs: H.J. Human. **Reg.Mgrs.** Eastern Cape: J.A. Jooste. Southern Tv1: J.P. Ludick. Northern Tv1: J.H. Buys. Western Cape: H.S. Meyer. Natal: D.I. Jonker. Europe: A.J. Nixon. OFS: J.J. Spies.

HOME SERVICES

Mediumwaves Location	kW	English kHz	Afrikaans kHz	R.5 kHz
Johannesburg (West)	2	638	575	719
Port Elisabeth	5	1178	1043	1313
Cape Town (Brackenfell)	5	656	557	728
Johannesburg (East)	5			1286
Bloemfontein	5			782
Grahamstown	2			701
Durban	2			800
Pietersburg	5			1115

N.B: In 1977 Radio 5 is to move to shortwave (all MW-sts will probably close down by early 1977).

FM Location	kW	English MHz	Afrikaans MHz	Springbok MHz	Reg. Comm. MHz
Aliwal North	3	89.32	101.19	93.28	
Beaufort West	3	104.46	92.59	100.50	
Bedford	3	102.74	98.78	94.83	
Bethlehem	3	94.91	98.87	106.78	90.96*
Bloemfontein	10	103.94	88.12	96.03	107.90
Boesmanskop	3	104.37	92.50	88.55	
Calvinia	3	99.04	95.09	103.00	
Carnarvon	3	93.97	90.01	97.92	
Ceres	0.05	91.47	99.39	95.43	103.34x
Christiana	3	89.50	97.41	105.32	101.36*
Constantiaberg	3	93.45	97.41	105.32	101.36x
Cradock	3	96.20	92.24	88.29	
Davel	3	93.36	89.41	97.32	
De Aar	3	91.04	106.87	95.00	
Donnybrook	3	88.20	104.03	92.16	100.07++
Dullstroom	3	88.63	104.46	92.59	
Durban (Alverstone)	10	90.01	105.83	93.97	101.88++
Durban (North)	0.5	87.86	107.64	91.81	99.73++
East London	3	107.12	95.26	91.30	99.21x
Eshowe	3	105.06	101.10	89.24	97.15++
Fort Mistake	3	100.67	104.63	96.72	92.76++
Franschhock	0.05	95.09	91.13	99.04	103.00x
George	3	102.05	106.01	90.18	98.10x
Graaf-Reinet	3	98.35	94.40	102.31	
Grahamstown	3	93.45	101.36	89.49	97.41x
Greytown	3	107.21	103.25	91.39	99.30++
Hartbeesfontein	3	91.90	87.95	95.86	99.82*
Hex River	0.05	88.21	100.07	92.16	96.11x
Hoedspruit	3	107.64	99.73	87.86	
Houtbosdorp	3	89.24	97.15	105.06	
Johannesburg	10	95.51	103.42	99.47	87.60*
Kareedouw	3	105.66	101.71	89.84	93.79x
Keiskammahoek	3	100.59	92.68	104.54	96.63x
Kimberley	3	106.09	102.14	98.18	94.23*
Kroonstad	3	90.53	94.48	102.39	98.44*
Kuruman Hills	3	99.56	95.60	103.51	91.64*
Ladybrand	3	89.92	101.79	105.75	
Louis Trichardt	3	96.37	88.46	100.33	
Matatiele	3	90.35	98.27	94.31	
Matjiesfontein	3	101.62	93.71	105.58	97.67x
Menlo Park	0.1	93.97	97.92	101.88	90.01*
Middleburg (Tv1)	3	90.78	106.61	94.74	
Mooi River	3	105.40	97.49	89.58	101.45++
Napier	3	99.21	95.26	103.17	107.12x
Nelspruit	3	90.44	102.31	94.40	
Nongoma	3	100.33	96.37	104.29	88.46++
Nouport	3	101.54	93.62	97.58	
Oudtshoorn	3	99.47	95.51	103.43	91.56x
Paarl	0.5	104.54	100.59	88.72	96.63x
Petrus Steyn	3	96.29	92.33	100.24	88.38*
Pietermaritzburg	0.02	92.68	104.55	96.63	88.72++
Piet Retief	3	89.84	93.79	101.71	
Piketberg	3	99.81	95.86	107.73	91.90x
Port Elizabeth	3	103.51	99.55	87.69	95.60x
Port Shepstone	3	102.65	90.78	98.70	94.74++
Potgietersrust	3	103.25	95.34	107.21	91.39*
Pretoria	5	88.98	96.89	92.93	90.35*
Prieska	3	89.24	105.06	93.19	
Queenstown	3	94.05	90.10	101.96	
Riversdale	3	104.20	96.29	92.33	88.38x
Rocklands	0.05	94.05	98.01	105.92	101.97x
Rustenburg	3	102.99	106.95	95.08	
Schweizer Reneke	3	98.78	94.83	102.74	90.87*
Senekal	3	101.02	97.06	93.11	
Simonstown	0.02	92.07	96.03	103.94	99.99x
Springfontein	3	88.89	100.76	92.84	104.72*
Suurberg	3	100.93	96.98	104.89	98.02x
Table Mountain	0.25	94.83	98.78	106.70	102.74x
Thabazimbi	3	106.18	102.22	98.27	
The Brook	3	95.17	91.21	99.13	
Theunissen	3	103.17	99.21	107.12	95.26
Ubombo	3	94.23	90.27	98.18	
Upington	3	104.63	92.76	100.67	
Van Rhynsdorp	3	97.23	93.28	101.19	105.14x
Villiersdorp	3	94.48	102.39	90.53	98.44x
Volksrust	3	95.94	91.99	99.90	
Vryheid	3	102.48	98.52	94.57	106.44++
Welverdiend	3	93.71	89.75	97.66	107.9*
Witsieshoek	0.1	102.05	106.01	94.14	98.10*
Zeerust	3	89.32	105.15	93.28	

*=R. Highveld; x=R. Good Hope; ++=R. Port Natal.

INTERNAL SHORTWAVE SERVICE

STATIONS: H.F. Verwoerd Station (Meyerton) (G.C: 28.08E/26.35S): 2×20kW trs, 8×100kW trs.

kHz	Sce	kHz	Sce	kHz	Sce	kHz	Sce
3230	S	3980	NC/AS	7170	A	11790	E
3250	NC/AS	3995	S	7185	NC	11885	A
3285	E	4810	NC	7285	E	11935	NC
3320	A	4875	A/S	9560	A		
3955	A	4835	E	9680	E		
3965	E	5980	S	9710	NC		

A=Afrikaans Sce; E=English Sce; NC=Nat. Comm. Sce; AS=All Night Sce; S=Special Sces.
Frequencies in brackets are used October-May.

English Service

3285 (3965): 0400(Sat 0430, Sun 0500)-0520, 1620-2115(Sat 2205)
3965 (4835): 0400(Sat 0430, Sun 0500)-0635, 1520-2115(Sat 2205)
7285 (9680): 0520-1620
9680 (11790): 0635-1520

N: 0430(Mon-Fri), 0500(W), 0600, 0659(Mon-Fri), 0900, 1115, 1400(Mon-Fri), 1600, 1700(W), 1900, 2100. **Reg.N:** 1125(sep. bulletins on FM & SW) (W), 1710(Mon-Fri). **Local Prgrs:** 1145-1200(Sat), 1645-1650, 1650-1655 (certain FM trs only). **N. in German** (for So.We.Africa) 1710 (SW and FM Windhoek 98.78MHz). **Indian Prgr. in English:** Sat 0515-0600, 1145-1200 (on some FM trs), Sun 0630-0725.

Afrikaans Service

3320 (3955): 0400(Sat 0430, Sun 0500)-0520, 1620-2115(Sat 2205)
3955 (4875): 0400(Sat 0430, Sun 0500)-0635, 1520-2115(Sat 2205)
7170 (9560): 0521-1621
9560 (11885): 0636-1521

N: 0445(W), 0600, 0900(W), 1115, 1400(Mon-Fri), 1600, 1700(W), 1900, 2100. **Reg.N:** 1125(sep. bulletins on FM and SW)(W), 1710(Mon-Fri)(as 1125).
Reg. Prgrs. W: 0630-0730.

Nat. Comm. Sce. (Springbok Radio): In English and Afrikaans.

3250 (3980): 0300(Sun 0400)-0522, 1622-2200
3980 (4810): 0300(Sun 0400)-0637, 1522-2200
7185 (9710): 0522-1622
9710 (11935): 0637-1522

N: English: 0430, 0530(W), 0630(Sun), 0845(W), 1100, 1358(Sat), 1630(Sun), 1700(W), 2030(W). **Afrikaans:** 0345(W), 0530(Sun), 0630(W), 1415(Mon-Fri), 1930(Sun).

Reg. Comm. Sces (in English and Afrikaans): 0300(Sun 0400)-2200. **N: English:** Every 2 hrs 0530-2130; **Afrikaans:** Every 2 hrs 0430-2030.
Radio 5 (Pop Music St): In English and Afrikaans: 0300-2200.

All Night Service
In English and Afrikaans 2200-0300(Sun 0400) on FM (Reg. and Nat. Comm. trs), 3250/3980kHz and on Radio 5's MW trs. – **N:** 2230 (Afrikaans), 0230 (English).

Special Services.
Market Reports: W 1605-1650 on 3230/3995 (or 5980kHz Mon/Wed/Fri in Afrikaans, Tues/Thurs in English – **Forces Prgrs English Sce:** 1530-1600(Thurs), 1145-1200(Sat/Public Holidays). **Radio RSA:** 1302-1330(Sat). **Radio 5:** 1900-2000(Tues/Thurs). **Springbok Radio:** 1300-1400(Sun).
ANN: "This is the English Sce. of R. South Africa". Afrikaans: "Dit is die Afrikaanse Diens van R. Suid Afrika". Springbok R, E: "This is the National Netw. of Springbok R, your st. for brighter broadc." Radio 5: "You are tuned to Radio Five/U is ingeskakel op Radio Vyf" – **INT-SIG:** English Sce: Dove-call. Afrikaans Sce: Musical Box "Ver in die Wereld Kittie" followed by Dove-call. Springbok R: opens with an orchestral arrangement of the folk tune "Vat jou goed en trek, Ferreira". Reg. Comm. Sces and All Night Sce: Before and after news: French horn. The All Night Sce. opens and closes with "Ver in die Ou Kalahari" (orchestral). The three main Services use special int-sigs. when making frequency changes on SW, viz. English ("Voortrekker March"), Afrikaans (Dove-call, prolonged), and Nat.Comm.Sce. (which opens with a different version of the int-sig). There is also spoken ID – **ALF:** R 6.50 – **PUB:** "Family Radio & TV" in English, "Radio & TV Dagboek" in Afrikaans (both weekly).

FM SERVICES IN VERNACULARS

Studios: South Sotho: Johannesburg. **Zulu:** Johannesburg/Durban. **Tswana:** Pretoria. **Xhosa:** King William's Town. **North Sotho/Venda/Tsonga:** Pietersburg.

RADIO BANTU

South Sotho

Location	kW	MHz
Aliwal North	3	105.14
Bethlehem	3	102.82
Bloemfontein	10	92.07
Boesmanskop	3	100.41
Cala	3	97.95
Johannesburg	10	91.56
Kroonstad	3	106.35
Ladybrand	3	93.88
Matatiele	3	106.18
Petrus Steyn	3	104.20
Schweizer Ren.	3	106.70
Senekal	3	89.15
Springfontein	3	96.81
Theunissen	3	91.30
Welverdiend	3	101.62
Witsieshoek	0.05	90.18
Tswana		
Bloemfontein	10	99.98
Christiana	3	93.45
Hartbees-fontein	3	103.77
Kimberley	3	90.27
Kuruman Hills	3	87.69
Menlo Park	0.1	105.83
Pretoria	5	100.84
Rustenburg	3	99.04
Thabazimbi	3	94.31
Welverdiend	3	105.57
Zeerust	3	97.23
No. Sotho		
Dullstroom	3	96.54
Hoedspruit	3	91.81
Houtbosdorp	3	101.10
Louis Trichardt	3	92.42
Menlo Park	0.1	100.07
Middleburg (Transvaal)	3	98.69
Potgietersrust	3	99.30
Pretoria	5	104.8
Tsonga/Venda		
Hoedspruit	3	95.77
Houtbosdorp	3	93.19
Louis Trichardt	3	104.28
Xhosa		
Aliwal North	3	97.23
Bedford	3	90.87
Constantiaberg	3	89.49
East London	3	103.17
Franschhoek	0.05	106.95
Graaf Reinet	3	106.26
Grahamstown	3	105.32
Keiskamma-hock	3	88.72
Matatiele	3	102.22
Noupoort	3	101.53
Paarl	0.25	92.67
Pt. Elizabeth	3	91.64
Queenstown	3	105.92
Rocklands	0.05	90.09
Suurberg	3	89.06
Table Mt.	0.25	90.87
Zulu		
Bethlehem	3	104.98
Davel	3	105.23
Donnybrook	3	96.11
Dullstroom	3	100.05
Durban (No.)	0.25	95.77
Durban (Alv.)	10	97.92
Eshowe	3	93.19
Fort Mistake	3	88.80
Greytown	3	95.34
Johannesburg	10	107.38
Middleburg (Transvaal)	3	102.65
Mooi River	3	93.53
Nelspruit	3	98.35
Nongoma	3	92.42
Pietermaritz-burg	0.02	100.59
Piet Retief	3	105.64
Port Shepstone	3	106.01
The Brook, Carolina	3	103.08
Ubombo	3	102.14
Volksrust	3	88.03
Vryheid	3	90.61

D.PRGRS: 0300-2100.
N; 0350(Xhosa only), 0400, 0515, 0835, 1130, 1600(exc. Zulu and Tswana), 1730, 1915, 2030.
N.B: From February 1977 the presently combined Venda/Tsonga network will split into separate services.
F.PL: The Government of the Bophutha-Tswana homeland (consisting of areas in the Western Transvaal, North-Eastern Cape and Orange Free State provinces) plans to start their own radio station "as soon as possible". Bophutha-Tswana will become independent within two to three years.

EXTERNAL SERVICES

RADIO RSA – THE VOICE OF SOUTH AFRICA

H.F. Verwoerd Transmitting Station Meyerton (G.C: 28.08E/26.35S): 2×100, 2×250, 2×500kW tr's.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3230	5980	9585	11900	15125	15220	21535
3995	7270	11800	11970	15155	17780	

I=Kenya/Uganda/Tanzania; II=Rhodesia/Zambia/Malawi; III=Ethiopia/Somali Rep; IV=Caprivi/Zambia; V=Rwanda/Burundi/Zaire; VI=Cameroon/Gabon/Rep. Congo; VII=Central Af. Rep/Chad; VIII=Nigeria/Ghana/Sierra Leone/Gambia; IX=Mali/Mauritania/Togo/Upper Volta/Ivory Coast/Guinea/Senegal/Niger/Dahomey; X=Central & East Africa; XI=Central Africa; XII=Middle East; XIII=Netherlands/Belgium; XIV=Germany/Austria/Switzerland; XV=Angola/Mozambique; XVI=USA & Canada; XVII=Kenya/Tanzania/Rhodesia; XVIII=SANAE; XIX=UK & Ireland: XX=Portugal; XXI=France/Belgium/Switzerland.
Behind frequencies in brackets: Antenna direction in degrees, clockwise from true North.

Schedule: 6/11/76-5/3/77

Times	Areas	kHz/Beam	Language
0256-0426	I/II	3995,5980(7.5)	**English**
	III	7270,9585(7.5)	
0428-0458	IV	7270,9585(7.5)	Lozi
0511-0605	V/VI/ VII	11900,17780(340) 15220(7.5)	French
0611-0705	VIII	11900,15220(315) 17780(317.5)	**English**
0711-0805	IX	11900,15220(315) 17780(317.5)	French
0856-1050	IV	11900,15220(340)	Lozi
1056-1158	X	11900,15220(20) 21535(352.5)	**English**
1158-1300	XI	11900,15220(355) 21535(352.5)	French
1300-1550	X	11900a,15220b(20) 21535a(352.5)	**English**
1456-1550 (Mon-Fri only)	IV	11900(340)	Lozi
1456-1550	I	15220(20) 21535d(352.5)	Swahili
1556-1650	I/II III/XII	7270,11900(7.5) 21535(352.5)	**English**
1656-1750	II	7270,9585(7.5)	Chichewa
1656-1750	XIII	11900,15155(340)	Dutch
1756-1850	XIV	11900,15155(340)	German
1756-1850	V/VI/ VII	7270(340) 11800(342.5)	French
1856-1950	XV/XX	3995(nd) 5980(32.5) 7270(327.5) 11800(342.5) 11900(340)	Portuguese
1956-2050	IX/XXI	7270,11900(340) 9585(327.5) 11800(342.5)	French

TUNE IN TO THE VOICE THAT SPEAKS FROM THE SOUTH

THE VOICE OF SOUTH AFRICA
With the News, and Background to the News.
Music performed by South African artists.
Features on South Africa's peoples and history.
THE VOICE OF SOUTH AFRICA
Speaking daily in English, Afrikaans, Swahili, ChiChewa, Lozi, German, Dutch, French and Portuguese.
Speaking to Africa, Europe, the Middle East and North America.
THE VOICE OF SOUTH AFRICA
Authoritative, entertaining, informative. Speaking at times and on wavelengths that you'll find in the Handbook.
THE VOICE OF SOUTH AFRICA IS RADIO RSA

RADIO RSA

THE VOICE OF SOUTH AFRICA

FREE TRANSCRIPTION SERVICE.
Recordings of music, drama, features, etc., are available to other stations free on request.

RADIO RSA THE VOICE OF SOUTH AFRICA, P.O. Box 4559, Johannesburg, South Africa.

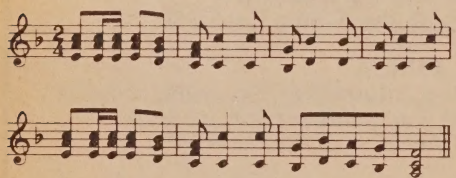
Times	Areas	kHz/Beam	Language
2056-2150	VIII/XIX	7270,11900(340) 9585(327.5) 11800(342.5)	**English**
2226-2320	XVI	5980,11800(315) 9585,11900(305)	**English**
0956-1030**	XV	7270(32.5) 15220(317.5)	Portuguese
0806-0920*	XV	7270(32.5) 15125(317.5)	Portuguese
0806-0856*	XV	11900,15220(340)	Portuguese
0926-0956*	XVII	11970,15125(20)	Afrikaans
0956-1045*	XVIII	11970,15125(150)	**English**

*) Sun only; **) W only; a) to 1456 Mon-Fri; b) to 1456 daily.

The **March/April schedule 1977** will remain the same except for the following transmissions:

Times	Areas	kHz/Beam	Language
0428-0458	IV	5980,7270(7.5)	Lozi
1656-1750	II	5980,7270(7.5)	Chichewa
1856-1950	XV/XX	3230(nd) 5980(32.5) 7270(327.5) 9585(342.5) 11900(340)	Portuguese
1956-2050	IX/XXI	5980,11900(340) 7270(327.5) 9585(342.5)	French
2056-2150	VIII, XIX	5980,11900(340) 7270(327.5) 9585(342.5)	**English**

N: English: 0300, 0400, 0615, 1100, 1444(Mon-Fri), 1600, 2100, 2230 – **French:** 0515, 0715, 1200, 1800, 2000 – **German:** 1800 – **Dutch:** 1700 – **Portuguese:** 0830(Sun), 1000(W), 1900 – **Swahili:** 1500 – **Lozi:** 0450(W), 1030, 1500(Mon-Fri) – **Chichewa:** 1700.
DX-Corner (English): Wed/Sat 1640, 2140, 2310 (different prgrs); Thurs 1435 (repeat of Wed prgr).
ANN: "This is Radio RSA, the Voice of South Africa, calling from Johannesburg". F: "Ici R. RSA, la Voix de l'Afrique de Sud". P: "Aqui R. RSA, a Vox la Africa do Sul" – **INT-SIG:** Call of the Bokmakierie accompanied by first bars of "Ver in die Wereld Kitty" on guitar.



V. by QSL-card – **F.PL:** 3×500kW SW tr's at H.F. Verwoerd station for Radio RSA.

SOUTH/WEST AFRICA

(Namibia – UN Mandate admin. by South Africa)

L.T: GMT+2h – **Pr.L:** Afrikaans, German, English, Vernaculars.

SOUTH-AFRICAN BROADCASTING CORPORATION (SABC)

ADDR: P.O. Box 321, Windhoek 9100.
L.P: Reg.Man: P.J. Venter.

Station

FM	kW	Engl.Sce.	Afr.Sce.	Nat.Comm.Sce.
Windhoek	0.05	98.78	94.82	102.74

D.PRGRS: relay Johannesburg – **Regional News** (from Windhoek): English and Afrikaans Sces: same times as Johannesburg. Only the German bulletin at 1710(Mon-Fri) is a relay.
ANN: "Here is the Regional News for South-West Africa". "Hier volg die Streeknuus vir Suid-Wes Afrika". "Hier ist Radio Südafrika".

Vernacular Services (from Windhoek)

Stations

FM	kW	R Owambo	R Damara-Nama	R Herero
Khorixas	0.3		99.73	
Okakara	3			95.63
Oshakati	3	95.60		
Windhoek	0.1	91.64	87.69	107.47

D.PRGRS: R. Owambo in Kuanyama and Ndonga, **R. Herero** in Herero, **R. Damara-Nama** in Damara-Nama: 0400-2100. **N:** 0515, 0830, 1130, 1600, 1780, 1915, 2030. **Radio Kavango** (from Rundu) in Kwangari, Mbukusha and Gcirika: 1500-2000. **N:** 1700, 1930.
Stations: 1 FM st. at Rundu, 6 FM repeaters along the Kavango river (all 0.3kW).

Walvis Bay (South African Territory)

Radio Herero (see above).
FM: 95.17MHz 0.02kW (repeater).

ST. HELENA (British)

L.T: GMT – **Only L:** English.

ST. HELENA GOV. BROADCASTING SERVICE

ADDR: Information Office, Essex House, Jamestown, Island of St. Helena, South Atlantic Ocean.
STATION (G.C: 15.55S/05.42W): 1511kHz 1kW.
HOME SCE. in English: Alternate weeks: Sun 1500-1830, 2000-2200(1630-1830, 2000-2200); Mon 1900-2130(1900-2130); Tues 0945-1145°, 1900-2200(0945-1145°, 1900-2200); Wed 1530-1700, 1930-2200(2000-2200); Thurs 1900-2200(1930-2200); Fri 0945-1145°, 1900-2200(0945-1145°, 1900-2200); – °) for schools.
ANN: "This is the St. Helena Gov. Broadc. Sce. operating in the medium wave band on a freq. of 1511kHz or 200 metres" – **INT-SIG:** Trumpet call 11 seconds repeated at 5 second intervals for 64 seconds followed by "Life on the Ocean Waves".

SUDAN (Democratic Republic)

L.T: GMT+2h – **Pr.L:** Arabic – **EC:** a/c 50, 240 (yes).

DEPARTMENT OF TELECOMMUNICATIONS, Ministry of Communications, Khartoum. Cable: Gentel.

L.P: Dir: Eng M. Awad Alam.

BROADCASTING SERVICE OF THE DEMOCRATIC REPUBLIC OF THE SUDAN

ADDR: P.O. Box 572, Omdurman. **Cable:** Izaa.
STATIONS (G.C: 32.28E/15.30N): Omdurman (Soba).

kHz	kW	kHz	kW	kHz	kW	kHz	kW
764	100	1295*	1500	6150	20	9505	50
829**	–	5039	20	7120	120	11835	120
960	60						

*) Sennar; **) Juba

HOME SCE: Arabic 0400-2200 on all freq's (exc. those used for other prgrs). **N:** 0430, 0545(exc. Fri), 0800, 1000(exc. Fri), 1230(exc. Fri), 1300, 1400, 1500, 1600, 1700, 1800, 1930, 2130.
For So. Sudan (and Somalia): 1300-1500 on 960/5039/6150kHz in Simple Arabic, English, Somali and Local dialects.
EXTERNAL SCE: Arabic (for Sudanese abroad): 1800-1900(Sat 1900-2000) on 11835kHz. **N:** 1815(not Sat).
English: 1630 on 960kHz.
ANN: "Huna Omdurman Ithaa' til jumhuriyah el Sudan el Demokrautiyah". E: "This is R. Omdurman, the Voice of the Democratic Rep. of the Sudan" – **V.** by letter – **F.PL:** New mw-tr's at Juba, Port Sudan and Nyala and Sennar (1500kW) in 1977.

SWAZILAND (Kingdom)

L.T: GMT+2h – **Pr.L:** English, Siswati.

DIRECTORATE OF POST AND TELECOMMUNICATIONS

P.O. Box 125, Mbabane. **Cable:** Postgen.

SWAZILAND BROADCASTING SERVICE (Gov-Comm.)

P.O. Box 338, Mbabane. **Te:** 2761. **Cable:** Broadcast. **Telex:** 35.
L.P: Dir: A.M. Dlamini. Chief Eng: E. Firth.
STATIONS: 881kHz 10kW.
FM: Manzini 99.98MHz 0.02kW – Mbabane 103.94MHz 0.2kW.
HOME SCE. in Siswati, English: Mon-Fri 0355-0702, 1000-1200a, 1500-2035; Sat & Sun 0355-2035 – a) during School term: 0800-1330.
N. in Siswati: 0400, 0600, 0700, 1000, 1130, 1527, 1700, 1857.
N. in English: 0500, 1100(BBC), 1600, 1900.
ANN: "This is the Swaziland Broadc. Sce." or "You are tuned to R. Swaziland". Siswati: "Lona ngu Msakato waka Ngwane" – **INT-SIG:** At sign on "Cilongo" (The Swazi trumpet) – **V.** by QSL-card.

SWAZILAND COMMERCIAL RADIO (Pty) Ltd.

(Swazi Radio) (Private company)
ADDR: Studios: P.O. Box 23114, Joubert Park, South Africa, 2044. **Reports to:** Chief Engineer, P.O. Box 99, Amsterdam, So.Africa 2375. **Te:** 21-3966, Johannesburg, So.Africa. **Cable:** Swazicom service.
STATION: Sandlane (G.C: 30.48E/26.38S). MW; 50kW, SW: 10/100kW.
INTERNATIONAL SCE (to Southern Africa): in English, Portuguese and Indian languages: W 0400-0945(Sat 0900), 1330-2200(Sat 1100-2300); Sun 0500-2200.

kHz	Mon-Fri	Sat	Sun
1376:	0400-0600	0400-0600	0500-0600
	1500-2200	1500-2300	1500-2200
3223:	0400-0700	0400-0700	0500-0730
	1530-2200	1530-2300	1530-2200
4980:	0500-0945	0500-0900	0500-1530
	1330-1530	1100-1530	
6155:	0700-0945	0700-0900	0730-1530
	1100-1530	1100-1530	

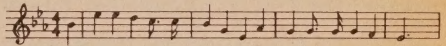
English: W 0700-0900, 2030-2200(Sat 2300); Sun 1400-1800, 2000-2200.
Religious Prgrs: 0500-0730(W), 0900-0945(Mon-Fri), 1800-1900(Sun), 2030-2230(W) in English exc. Sun 0515-0530 (Afrikaans).
"Radio Truro" (in English): W 0400-0500, 1300-1530, 1600-1700(Sat 1400-1700); In Hindi/Urdu/Gujerathi/Tamil/Telugu/Gawali & English: 0730-1100(Sun), 1530-1600(Mon-Fri), 1700-1830(Sat), 1900-2000(Sun).
Portuguese: 0500-0700(W), 1100-1400(Sat/Sun), 1700-1830 (Mon-Fri).
ANN: E: "This is Swazi Radio the International Sound". "This is R. Truro on Swazi R. the International Sound". "Yeh R. Truro Heh". P: "Paralelo 27, uma programa para comunidade portuguesa a transmitir o através do serviço internacional de Swazi Radio de International Sound" – **INT-SIG:** Instrumental music and spoken ID in English – **F.PL:** Transmissions after 2200 in **English** (2 to 4 hrs) beginning at weekends before the end of 1976 on 1376/3223kHz. Exp. broadcasts in the 120mb (10kW).

TRANS WORLD RADIO (Rlg)

ADDR: P.O. Box 64, Manzini. **Te:** 2792. **Cable:** Votan.
L.P: Pres: Paul E. Freed. Field Dir: A.R. Olson. Dir.Prgr: F.J. Simmonds.
STATIONS: Mpangela Range (G.C: 31.59/E26.34S): 4×30kW tr's.
FOREIGN SCE: I=So. Africa; II=Angola, SW-Africa, Botswana; III=Ce. & Ea. Africa.

kHz	Area	Times	Beam	Languages
3200	I	1600-1745	233°	German, Afrikaans
	I	1800-2105	233°	**English**
3240	I	0315-0415	3°	Vernaculars
	I	1700-1900	3°	Vernaculars
	I	1845-1900(a)	3°	**English**
3275	I	0330-0415	233°	Zulu
4760	I	0430-0545	233°	Afrikaans
	III	1515-1645	3°	Vernaculars, Port.
4790	III	0500-0545(b)	3°	Vernaculars, Port
	I	1800-2105	233°	**English**
6070	I	0600-0905	233°	**English**
7255	III	1615-1730	3°	Chinese, Nyanja
	II	1815-2000	312°	French, Lingala, Port.
9520	I	0430-0545	233°	Afrikaans
9590	I	1600-1745	233°	German, Afrikaans
	I	1800-2105	312°	**English**
11715	III	1445-1600	3°	French, Lingala, Swahili
11760	I	0600-0905	233°	**English**
	III	1500-1530	3°	French

a) Thurs; b) Sun – Vernaculars: Lomwe, Macau, Ndebele, Pedi, Shangaan, Shona, Sotho, Tshwa, Tswana and Zulu.
ANN: "This is your station for inspiration, Trans World Radio-Swaziland" or "From the beautiful Kingdom of Swaziland, this is Trans World Radio" – **INT-SIG:** Last bar of "We've a story to tell the Nations" on Hand Bells – **V.** by QSL-card. Rec. acc – **F.PL:** MW tr.



PUB: Schedules available in English, Afrikaans, Zulu, German on request – **ALF:** Donations.

TANZANIA

L.T: GMT+3h – **Pr.L:** Swahili, English – **E.C:** a/c 50, 230V (yes).

RADIO TANZANIA (Gov-Comm.)

ADDR: P.O. Box 9191, Dar es Salaam. **Te:** 63342. **Cable:** Sauti. **Telex:** 41085 – **L.P:** Dir. of Broadc: P. Sozigwa. Head of Prgrs: D. Wakati. Chief Eng: I. Mhumbira.
STATIONS: Dar es Salaam (G.C: 39.14E/06.50S):

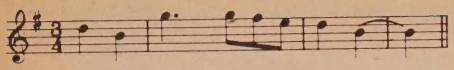
kHz	kW	kHz	kW	kHz	kW
632b,d	50/10	1214c,d	50/10	7165e	20
656d,e	100	1250	1.25	7280d	10
719a,d	50/10	4785d	50	9685d	50
836d	1.25	5050e	10	9750f	10/50
1025f	1.25	6105f	50	15435f	50

a) Mwanza, b) Mbeya, c) Arusha, d) Nat. Sce, e) Comm. Sce, f) Ext. Sce (Dar es Salaam).

HOME SCE (National Sce) (Swahili): 0300-2105 on MW; 0500-0858 and 1100-1358 on 656kHz; 0300-0700 and 1500-2105 on 4785kHz; 0700-1459 on 7280/9685kHz.
N: 0400, 0600, 0800, 1000, 1200, 1500, 1600, 1700, 1800, 1900(rel. Zanzibar), 2000, 2100.
Commercial Sce (Swahili: 0300-0500, 1400-2015 on 656/5050kHz; 0900-1100 on 656/7165kHz. **N.** (relay d): 0400, 1000, 1500, 1600, 1700, 1800, 1900, 2000.
School Prgr: W 1200-1300 in Swahili/English on 1250/9750kHz. **N:** 1200(Nat.Sce).

EXTERNAL SCE (in English, Afrikaans, Vernaculars): **To Ea. Africa:** 0330-0430 on 1025/6105kHz, 0900-1030(Sat /Sun 1915) on 1025/9750kHz, 1600-1915 on 1025/9750kHz. **To Ce. & So. Africa:** 0430-0530 on 6105kHz, 1600(Sat/Sun 1530)-2015 on 15435kHz.
N. in English: 0400, 0500, 1000, 1300(Sat/Sun), 1600, 1800, 1900.

ANN: English: "This is the External Sce. of Radio Tanzania, Dar es Salaam". Swahili: "Hii ni idhaa ya Taifa ya R. Tanzania Dar es Salaam". Comm. Sce: "Hii ni Idhaa ya Biashara ya R. Tanzania Dar es Salaam" – **INT-SIG:** Celeste (Nat. & External Sce's), Piano (Comm. Sce.)



V. by QSL-card.

RADIO TANZANIA ZANZIBAR (Gov.)

ADDR: P.O. Box 1178, Zanzibar, Tanzania. **Te:** 2928.
Cable: Broadcasts.
STATIONS: Marhubi (G.C: 39.12E/06.09S):

kHz	kW	h of tr. in Swahili:
584	2	0300-0500, 0900-1100, 1430-2000
3339	10	0300-0500, 0900-1100, 1430-2000
6005	3.5	1030-1630

ANN: "Hii ni Sauti ya Radio Tanzania, Zanzibar" – **F.PL:** new tr.

TOGO

L.T: GMT – **Pr.L:** French, 8 Vernaculars.

RADIOFFUSION-TELEVISION TOGOLAISE (Gov.) (La Voix de la Nouvelle Marche)

ADDR: B.P. 434, Lomé; B.P. 21, Lama-Kara. **Te:** 2492.
Cable: Radio Togo.
L.P: Dir.Gen: P.A. Amouzougah. Dir. Lama-Kara St: E. Isu.
STATIONS: a) Togblekope (G.C: 01.12E/06.16N), b) Lama-Kara (No. Togo).

kHz	kW	Times
1394a	20	All times
1502b	10	W 0545-0830, 1200-1430, 1600-2230. Sat/Sun 0545-2230
3222b	50	0545-0830, 1630-2230
5047a	100	0530-0800, 1730-2300
6155b	10	1200-1430
7265a	100	0800-1730

HOME SCE. in French and Vernaculars: W 0530-0900, 1200-1400, 1630-2300; Sat/Sun 0530-2300. **N. in French:** 0535, 0615, 0757, 1000(Sun), 1230, 1357, 1730, 1900, 2200, 2257 – **N. in English:** 1245, 1955.
Vernaculars: W 0630, 0635, 1300, 1310, 1735, 1745, 1755, 1805, 1815, 1835; Sun 1300, 1310, 1815, 1835.
ANN: "Ici Lomé, Radiodiff-Télévision Togolaise, la Voix de la Nouvelle Marche, chaîne internationale" or "Ici Radio Lama-Kara" – **INT-SIG:** African Bow (Solo) (Lomé). At opening and close down: Hymne Togolais – **V.** by QSL-card. Re. in F, E, Rec. acc – **PUB:** Prgr. sched. (weekly).

TRANSKEI (Republic)

L.T: GMT+2h – **Pr.L:** IsiXhosa, English, Sesotho.

TRANSKEI BROADCASTING CORPORATION (Gov.)

ADDR: Private Mailbag X5004, Umtata 5100. **Te:** 861.
Cable: Botwe.
R. Transkei's own trs installed in Sep. 1976. The first broadcasts began in early Oct. and a reg. sce. prior to Independence Day (Oct. 26, 1976). The station will also take over the FM trs. of the SABCs Xhosa Sce. on Transkeian territory. These are:

STATIONS

Location	kW	MHz	Location	kW	MHz
Butterworth	3	90.52	Mount Ayliff	3	100.84
Cala	3	91.90	Umtata	3	105.57

SOUTH AFRICAN BROADCASTING CORPORATION (SABC)

STATIONS (repeaters): °=3kW.

FM	kW	English	Afrikaans	Nat. Comm.
Butterworth	3	102.39	98.44	106.35
Cala	0.8	95.86	103.77	°99.81
Mount Ayliff	3	92.93	88.98	96.89
Umtata	0.8	97.66	93.71	°89.75

D.PRGRS: Relay Johannesburg.

TRISTAN DA CUNHA (British)

L.T: GMT – **Pr.L:** English.

ZOE TRISTAN RADIO (Gov.)

ADDR: The Administrator, Tristan da Cunha, South Atlantic Ocean, via Cape Town, South Africa.
STATION: Edinburgh (1 studio): (G.C: 37.00S/12.00W): 3290kHz 0.04kW.
HOME SERVICE: Sun, Wed, Fri, Sat: 1900-2400. **N:** 2000 (BBC), 2009 (local).
ANN: "This is Tristan Radio the Broadc. Sce. of Tristan da Cunha" – **INT-SIG:** Scottish Soldier (vocal) – **V.** by QSL-card.

TUNISIA

L.T: GMT+1h – **Pr.L:** Arabic – **EC:** a/c 50, 115/220 and 220/380V (yes).

DIRECTION GENERALE DES TELECOMMUNICATIONS,

3 bis, rue d'Angleterre, Tunis. **Cable:** Gentel.
L.P: Dir.Gen: B. Khouadja.

RADIODIFFUSION TELEVISION TUNISIENNE (Gov.)

ADDR: 71, Ave. de la Liberté, Tunis. **Te:** 287.300. **Telex:** 12365TN.
STATIONS (G.C: Tunis-Djedeida 09.56E/36.50N, Sfax 10.53E/34.98N):

	kHz	kW		kHz	kW
Gafsa	584	350	Gafsa	7225	350
Sousse	602	5	Sfax	7275	50
Tunis I	629	600	Gafsa	9650	350
Sfax	719	100	Sfax	11970	50
Tunis II	962	100	Sfax	15225	50
Sfax	1570	5			

FM: 87.9/90.1/96.5MHz.
National Prgr (Arabic): 0415-0030 on 584/629/719kHz and relayed on SW to Europe, Middle East and No. Africa on 7275/11970/15225kHz; On 7225kHz(night), 9650kHz(day) 11970/15225kHz also close at 2330/2340.
N: 0500, 0600, 0700, 0900, 1000, 1100, 1200, 1300, 1400, 1500, 1700, 1800, 1830, 1900, 2100, 2300.
International Netw. on 962kHz+FM 96.5MHz:
French: 0500-0600, 1100-1330(Sun 0500-1330), 1430-2200.
Italian: 1330-1430 (reported to have English and German 1430-1630). **Relay Nat. Prgr.** from 2200.
Reg. Sce (Arabic): 0458-0030 on 602/1570kHz.
ANN: F: "Ici Radio Tunis" Arabic: "Itha'at il Jumhuriya at Tunisiya" – **V.** by QSL-card. Re. in E, F. Rec. acc – **ALF:** $4.00 – **F.PL:** New SW-tr. at Sidi Mansur for Europe.

UGANDA (Republic of)

L.T: GMT + 3h – **Pr.L;** English, Vernaculars.
EC: a/c 50, 240/415 (yes).

EAST AFRICAN POST AND TELECOMMUNICATIONS CORPORATION

P.O. Box 7106, Kampala. **Cable:** Radiogen.
L.P: Dir.Gen: J. Keto. (Adm. responsible for the operation of telecommunications sces in Kenya, Uganda and Tanzania).

UGANDA BROADCASTING CORPORATION (Gov.)

ADDR: Ministry of Inf. and Broadcasting. P.O. Box 2038, Kampala. **Te:** 57251. **Telex:** 61084. **Cable:** Broadcasts.
L.P: Chief Eng. F.X.B. Katende. Contr. of Progr: A.P. Lawoko.
STATIONS: MW: 4×100kW, 1×20kW, 1×2kW; SW (G.C: 32.36E/00.20N): 7.5kW (13 studios at Kampala).

Location	kHz	kW	Net.	Location	kHz	kW	Net.
Mityana	575	100	N	Bugisu	1160	2	N
Kampala	638	100	N	Kampala	3340	7.5	R
Butebo	728	100	R	Kampala	4976	7.5	R
Bobi	809	100	R	Kampala	5026	7.5	N
Kampala	908	100	R	Kampala	7110	7.5	N
Kabale	998	50	N	Kampala	7195	7.5	R

HOME SCE: NATIONAL PRGR. in English, Swahili, French, Vernaculars: 0300-0545, 1325 (Sun 1415)-2105 on 5026+MW; 0600-1130(Sun 1400) on 7100+MW.
N. in English: 0400, 1000, 1400, 1700, 1800, 1900, 2100.
N. in French: 1545.

REGIONAL PRGR. in English, Swahili and Vernaculars: 0300-0545, 1400 (Sun 1430)-2105 on 4976 + MW; 0600-1130, 1325-1345 (Sun 0600-1400) on 7195 + MW.
N. in English: As Nat. Prgr.
Reg. St's: Butebo and Bobi. Broadcast local prgr. exc. for relays of N. in English and other items of national importance (also st' at Mawagga & Kyeriba not yet opened).

EXTERNAL SCE
STATION: Soroti: 2×250kW. (G.C: 33.40E/01.40N).

kHz	kHz	kHz	kHz
6030	9515	9730	15325

To Ea. and Ce. Africa on 6030kHz: Swahili 1400-1430, English 1430-1530, French 1530-1600.
To So. Africa on 9515kHz: English 1615-1730, Shona 1730-1800.
To We. Africa on 15325kHz(Sun, Tues, Thurs, Sat): English 1800-1830, French 1830-1900.
To No. Africa, Middle East, So. Europe on 9730kHz (Sun, Mon, Wed, Fri): French 1900-1945, Arabic 1945-2030, English 2030-2100.
ANN: E: "This is the Uganda Broadc. Corpo, Kampala". F: "Ici le service exterieur de la Corporation R.diff. Ugandaise émettant de Kampala, Capitale de la Republique Uganda".
INT-SIG: Local xylophone – **V.** by letter. Reports to Chief Eng. Rec. acc – **F.PL:** MW Booster st at Kasese and Masindi. European Sce on 15325kHz.

UPPER VOLTA

L.T: GMT – **Pr.L:** French + 18 Vernacular languages – **E.C:** a/c 50, 220/380V (yes).

RADIODIFFUSION-TELEVISION VOLTAIQUE (Gov.)

ADDR: B.P. 7029, Ouagadougou. **Te:** 4444. **Cable:** Radiovolta – **L.P:** St.Mgr. & Dir.Tec: P.I. Ouedrago.
STATIONS (G.C: 01.31W/12.22N): 4 studios.
746kHz 100kW: all times
1340 – 1 – : evenings
4815 – 20 – : evenings + mornings
7230 – 20 – : daytime
92 MHz : all times
HOME SCE. in French, Vernaculars: W 0600-0900, 1200-1400,1700-2400(Sat 1200-2400); Sun 0700-2400. **N. in French:** 0630(W), 0745, 0830(Sun), 1210, 1245, 1530(Sat), 1910, 1945, 2215, 2255 – **Wrp:** W 1240 – **Vernaculars:** 1745-1910.
R. Bobo-Dioulasso. Addr: B.P. 392, Bobo-Dioulasso. **Te:** 9213. **Cable:** Radio Volta Bobo.
Station: 1586kHz 1kW – **Relay Ouagadougou** (in French): W 0625-0800, 1200-1330, 1800(Sat 1700)-2200; Sun 1100-2200.
ANN: "Ici Ouagadougou, La Voix de la Renovation" – **INT-SIG:** Folklore music (Balafon) – **V.** by QSL-card or letter. Rp – **F.PL:** 100kW SW-tr.

ZAIRE (Republic)

L.T: Kinshasa/Mbandaka: GMT+1h; Lubumbashi/Kisangani: GMT+2h – **Pr.L:** French, Lingala, Kikongo, Tshiluba, Swahili.

DIRECCION DE L'EXPLOITATION DES TELECOMMUNICATIONS, B.P. 13798, Kinshasa-1.

Cable: Gentel.

LA VOIX DU ZAIRE (Gov.)

ADDR: Station Nationale, B.P. 8171, Kinshasa-Gombe.
STATIONS: Kinshasa (G.C: 15.23E/04.23S):

kHz	kW	kHz	kW	kHz	kW
692	600	7255	10	15350	100
1448	2	15245	100		

FM: 88.9MHz 50W, 93.0MHz 1kW, 96.8MHz 10kW.
HOME SERVICE in French, Swahili, Longala, Tshiluba, Kikongo: 24h on all freq's exc. 15350kHz.
N. in French: 0430, 0530, 0630, 1030, 1130, 1230, 1630, 1830, 2030, 2305, 0100. All national sts relay the news at 0530, 1130 and 1830.
ANN: "Ici Kinshasa, la Voix du Zaïre, Station Nationale de Radiodiffusion et de Télévision" – **V.** by letter.

REGIONAL STATIONS

	kHz	kW		kHz	kW		kHz	kW
1)	529	2	7)	1160	50	1)	6085	10
2)	566	2	8)	1286	2	5)	6125	10
3)	800	300	2)	4750	10	4)	7115	10
4)	1007	50	3)	4839	10	1)	7265	100
5)	1025	10	2)	5953	10	6)	7295	10
6)	1043	10	8)	5995	10			

Addresses and other information
1) B.P. 1745, Kisangani.
D.Prgr: W 0400-0700(Sat 0800), 1000-1245, 1500-2100, Sun 0400-2100.
2) B.P. 7296, Lubumbashi.
D.Prgr: in French, Swahili, Lingala, Tshiluba, Kikongo, Tchokwe: 0400-0700, 1000-1300(Sat 2100), 1500-2100(Sun 0400-2000).
3) B.P. 2220, Bukavu. **Te:** 2420 – **L.P:** Chief of St: Mauaka Nzau mâ Yema.
D.Prgr. in French and Vernaculars: 0400-0700(Sun 2100), 1000-1245, 1530-2100. **N.** in French: 1900. **V.** by letter. Rp.
4) B.P. 100, Bandundu – **D.Prgr:** 0400-2000.
5) B.P. 708, Kananga. **Te:** 2417.
D.Prgr: W 0400-0700, 1000-1200, 1500-2200(Sat 1000-2200); Sun 0400-2200.
6) B.P. 2132, Mbuji-Mayi – **L.P:** Chief Eng: T.M. Mulemnedi.
D.Prgr. in French, Lingala, Tshiluba: W 0400-0700, 1000-1200(Sat 2100), 1500-2100; Sun 0400-2000. **V.** by letter.
7) B.P. 704, Matadi.
D.Prgr: 0400-2100(Sat 2300) – **F.Pl:** 41 mb SW-tr.
8) B.P. 1061, Mbandaka – **L.P:** Dir: Kini-Nsiki.
D.Prgr. in French: 0400-0800, 1000-1200, 1500-2200; Sun 0400-2200 – **N:** 0430, 1030, 1630. **V.** by letter. Rec. acc.
ANN (all Reg. sts): "Ici . . . (name of town) . . . La Voix du Zaïre, Station Nationale de Radiodiffusion (et de Télévision" – Lubumbashi and Kinshasa only)" – **F.Pl:** 11 new highpowered MW and SW trs. Regional sts in Upper Zaïre and Kasai Regions.

ZAMBIA (Republic)

L.T: GMT+2h – **Pr.L:** English + 7 Vernacular languages – **E.C:** a/c 50, 220/380V (yes).

THE POSTMASTER GENERAL

ADDR: Telecommunications Division, P.O. Box 1660, Ndola. **Cable:** Gentel.
L.P: Dir.Telecommunications: Mr. G.A. Toshach.

ZAMBIA BROADCASTING SERVICES (Gov.)

ADDR: Broadcastig House, P.O. Box RW15, Lusaka. **Te:** 50388. **Cable:** Broadcasts Ridgeway.

THE ORIENT
0
500
1000 KM
G.M.T. +2
G.M.T. +3
G.M.T. + 4
G.M.T. +5
IRAN 3.30
AFGHANISTAN 4.30
INDIA 5.30
NEPAL 5.40
UNION OF SOVIET SOCIALIST REPUBLICS
PEOPLE'S REPUBLIC OF CHINA
Sinkiang-Uigur
Tibet
Kashmir
BLACK SEA
CASPIAN SEA
MEDITERRANEAN SEA
ARABIAN SEA
INDIAN OCEAN
BAY OF BENGAL
TURKEY
GREECE
BULGARIA
CYPRUS
SYRIAN ARAB REP.
LEBANON
ISRAEL
JORDAN
IRAQ
IRAN
AFGHANISTAN
PAKISTAN
EGYPTIAN ARAB REPUBLIC
SAUDI ARABIA
KUWAIT
BAHRAIN
QATAR
UNITED ARAB EMIRATES
GULF OF OMAN
OMAN
PEOPLES DEMOCRATIC REPUBLIC OF YEMEN
YEMEN ARAB REP.
DEMOCRATIC REPUBLIC OF SUDAN
ETHIOPIA
DEMOC. REP. OF SOMALIA
NEPAL
BHUTAN
SIKKIM
BANGLADESH
SRI LANKA
Punjab
Uttar Pradesh
Rajasthan
Madhya Pradesh
Bihar
Orissa
Maharashtra
Andhra Pradesh
Mysore
Tamil Nadu
Kerala
Assam
ISTANBUL
ANKARA
IZMIR
ANTALYA
TARSUS
ADANA
GAZIANTEP
DIYARBAKIR
TRABZON
BATUMI
ORDZHONIKIDZE
MAKHACH-KALA
TSKHINVALI
TBILISI
KARS
ERZURUM
YEREVAN
BAKU
VAN
TABRIZ
ARDABIL
HAKKARI
REZAIEH
BONAB
RASHT
SARI
GORGAN
QAZVIN
TEHRAN
MARIVAN
SANANDAJ
QASR-E-SHIRIN
KERMANSHAH
HAMADAN
ILAM
KIRKUK
BAGHDAD
SALMAN PAK
ALEPPO
TARTUS
HOMS
DEIREZZOR
BEIRUT
HAIFA
TEL AVIV
JERUSALEM
AMMAN
DAMASCUS
EILAT
AQABA
ISFAHAN
YAZD
KERMAN
AHWAZ
ABADAN
BASRA
SHIRAZ
ZAHEDAN
BAM
BANDAR BUSHEHR
BANDAR-E-LINGEH
BANDAR ABBAS
KUWAIT
AD-DAMMAN
MANAMA
RAS AL KHAIMAH
SHARJAH
DUBAI
ABU DHABI
DOHA
RIYADH
MUSCAT
Masirah
JIDDAH
MECCA
RED SEA
SANA'
TAIZ
MUKALLA
ADEN
ASHKHABAD
MASHAD
BUKHARA
SAMARKAND
TASHKENT
FRUNZE
ALMA ATA
KABUL
KANDAHAR
PESHAWAR
RAWALPINDI
ISLAMABAD
JAMMU
SRINAGAR
JULLUNDUR
LAHORE
SIMLA
CHANDIGARH
NEW DELHI
RAMPUR
KATHMANDU
KURSEONG
GAUHATI
RANGPUR
GORAKHPUR
ALIGARH
LUCKNOW
PATNA
BIKANER
JAIPUR
KANPUR
VARANASI
ALLAHABAD
AJMER
JODHPUR
QUETTA
KARACHI
AHMEDABAD
BHUJ
RAJKOT
INDORE
BHOPAL
JABALPUR
SAMBALPUR
NAGPUR
RAIPUR
CUTTACK
JEYPORE
PARBHANI
BOMBAY
POONA
GULBARGA
PANAYI
HYDERABAD
VISHAKHAPATNAM
BHADRAVATI
MADRAS
BANGALORE
PONDICHERRY
CALICUT
COIMBATORE
TIRUCHIRAPALLI
TRICHUR
ALLEPPEY
TRIVANDRUM
ANURADHAPURA
COLOMBO
RANCHI
CALCUTTA
DACCA
AGARTALA
KHULNA

L.P: Dep.Dir: Edgar C. Chellah. Chief Eng: J.D. Kalisilira. Head of TV: I. Chileshe.

STATIONS: GS=General Sce, HS=Home Sce, ES=External Sce.

Mediumwave

Location	kHz	kW	Sce.	Location	kHz	kW	Sce.
Kitwe	548	20	GS	Kabwe	1124	2	HS
Lusaka	629	10	HS	Livingstone	1142	1	GS
Lusaka	818	250	GS	Kabwe	1457	2	GS
Kitwe	1070	20	HS	Livingstone	1520	1	HS

Shortwave (Lusaka, G.C: 28.15E/15.30S)

kHz	kW	Sce.	kHz	kW	Sce.	kHz	kW	Sce.
3295	10	HS	6060	20	HS/ES	7250	120	GS
3346	120	GS	6165	20	GS/ES	9580	50	ES
4910	10	HS	7220	10	HS	11880	50	ES
4965	2.5	GS	7220	50	ES	17895	50	ES

GENERAL SERVICE (English/Vernaculars)
On MW: 0255-2115(Sat 2205); Sun 0355-2015.
SW relays: On 3346kHz: to 0530 and from 1545 – **On 6165kHz:** to 1600(Sun 1700) – **On 7250kHz:** 0545-1530 – **On 4965kHz:** to 0630 and from 1400.
N. in English: 0400(W), 0500(W), 0600(W), 0700(Sun), 0800(W), 1115, 1400(W), 1600, 1800, 2000, 2100(W).
Bemba, Nyanja and Luvale: 0255-0345(W), 0455-0700(Sun), 0610-0800(W), 1400-1600(Mon-Fri). Other times English.

HOME SERVICE (Vernaculars/English)
On MW: W 0255-2105; Sun 0355-2005.
SW relays: On 4910kHz: to 0630 and from 1400 – **On 3295kHz:** to 0530 and from 1600 – **On 6060kHz:** to 1600(Sun 1700) – **On 7220kHz:** 0545-1545(W).
N. in Vernaculars: 0350(W), 0430(W), 0445(W), 0515(W), 0600(Sun), 1045, 1100, 1125, 1545, 1600. **English** (relay Gen.Sce.): 0500(W), 1115, 1800.

EXTERNAL SERVICE
To Central/South and South-West Africa, mainly in English. °=to South-West Africa (including local Vernaculars and Afrikaans).

Times	kHz
0550-0720(Sun)	7220,11880
1050-1215°(Sun)	11880,17895
1550-2115(W)	6060,6165,9580
1650-2015(Sun)	6060,6165,9580

N. in English (relay Gen.Sce): 0700(Sun), 1115(Sun), 1600(W), 1800, 2000, 2100(W).
N.B: Ext.Sce. sometimes uses 7235kz instead of 7220kHz.
ANN: GS: "This is the General Sce. of R. Zambia broadc. from Lusaka" or "Zambia Broadc. Sces, this is the Gen. Sce. of R. Zambia". HS: "Kuno ku Home Sce. ya R. Zambia". ES: "Zambia Broadc. Sces, this is the External Sce. of R. Zambia" – **INT-SIG:** "Call of the Fish Eagle" – **PUB:** Monthly prgr. schedule – **V.** by QSL-card – **ALF:** 2 Kwacha=£1.0 (radio+TV 10 Kwacha=£5.0) – **F.PL:** 5 regional MW-sts.

ATTENTION DX-ers!

If **YOU** have received details about stations not conforming with this edition, please write

World Radio TV Handbook
P.O. Box 88, DK-2650 Hvidovre, Denmark

NEAR AND MIDDLE EAST

BAHRAIN

L.T: GMT+3h – **Pr.L:** Arabic.

BAHRAIN BROADCASTING STATION (Gov.)
ADDR: P.O. Box 253, Manama, Bahrain, Arabian Gulf.
STATION: 615kHz 20kW.
HOME SCE in Arabic: 0500-1045, 1500-2005(or 2030).
ANN: Arabic: "Huna al Bahrain" (This is Bahrain) – **INT-SIG:** Local composition of guitar and violin.

CYPRUS

L.T: GMT+2h – **Pr.L:** Greek, English, Turkish, Armenian – **EC:** a/c 240V (yes).

CYPRUS BROADCASTING CORPO. (Gov, Comm.)
ADDR: P.O. Box 4824, Nicosia. **Te:** 22231. **Cable:** Broadcasts. **Telex:** 2333.
L.P: Dir.Gen: A. Christofides. Dep.Dir.Gen: I. Hadjiossif. Chief Eng: P.T. Astreos. Head of R.Prgr: C.H. Papadopoulos. Head Comm.Div: D. Kyprianou.

STATIONS	kHz	kW	STATIONS	kHz	kW
Nicosia	602	20	Paphos	917	2
Nicosia	692	20	Limassol	1484	0.5

FM (all 10kW):
Mt. Olympos 94.8/97.2MHz.

HOME SCE: 1st Prgr (on 692/917/1484kHz+97.2MHz): **Greek** 0400-2105. **N:** 0430, 0530, 0800(W), 1000, 1100(W), 1130, 1400, 1500, 1600, 1730, 1900, 2000, 2100.
2nd Prgr (on 602kHz+94.8MHz): 0430-1730.
Turkish: 0430-0600, 1000-1130, 1400-1730. **N:** 0530, 1115, 1645 – **English:** 0600-0700(W), 1130-1300(Sun 1230). **N:** 0630(W), 1200 – **Armenian:** 1300(Sun 1230)-1400 – **Music:** 0700(Sun 0600)-1000.
INTERNATIONAL SCE (English and Arabic): On 602kHz/94.8MHz: 1900-2200.
ANN: Greek: "Radiofonikon Idryma Kyprou". Turkish: "Burasi Kibris Radio Yayin Korporasyonu" – **INT-SIG:** Avkoritissa played on Guitar – **V.** by letter. Recordings accepted – **ALF:** £2.50 (per household) – **FI:** Gov. subsidized, Comm. adv. income – **AD:** 30 min. daily.

Turkish Occupied Zone

RADIO BAYRAK
ADDR: Via Nersin 10, Lefkose (via Turkey).
L.P: Gen.Mgr: H. Suha. Dir. of Prgrs: M. Fehmi. Dir.Tec: T. Hilmi.
STATIONS (Lefkose): G.C: 35.22E/35.08N: 1095kHz 20kW – 1500kHz 10kW(rep. on 1473kHz) – 6150kHz 7kW (d: north-south)+FM: Sina Oros 87.6/90.6MHz.
D.PRGRS in Turkish: 0430-2100 on 1095/6150kHz+FM.
N: 1130.
On 1500kHz: Greek 1100-1215, 1245-1400, 1700-1730, 1800-2000 – **English:** 1215-1245, 1730-1800.

R. MONTE CARLO MIDDLE EAST (Comm.)
STATION: Cape Greco: 1232kHz 600kW.
D.PRGR. in French, Arabic: 0500-2000.
ANN: French: "R. Monte Carlo". Arabic: "Huna Monte Carlo" – **V.** Reports to B.P. 128, Monte Carlo. Listeners' Requests to B.P. 8707, Beirut, Lebanon.
RELAY OF TRANS WORLD RADIO (via RMC 1232kHz): 2000-2115. **Arabic** 2000-2015(Sat-Tues), 2015-2030(D), 2030-2045(Sun/Mon/Fri) – **Armenian** 2030-2045 (Tues/Thurs) – **English** 2045-2115(D) – **Farsi** 2000-2015 (Wed-Fri) – **French** 2030-2045(Sat) – **Russian** 2030-2045 (Wed) (subtract one hour for Summer time).

ANN: (TWR-prgrs): "This is Trans World Radio" – **INT-SIG:** Flute – **V.** by QSL-card (requests to P.O. Box 141, Monte Carlo).

BBC EAST MEDITERRANEAN RELAY

MW: Zyyi 2×100kW, 1×50kW.
SW: 2×7.5, 2×20, 4×100 trs.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
638	6010	6180	7230	9590	9750	15105
720	6070	6195	7250	9605	11720	15125
1322	6085	7130	7260	9640	11740	15420
3989	6120	7140	7275	9670	11750	17885
5990	6140	7210	9540	9690	11760	21660

Relays of BBC Arabic and Persian Services and World Services on mediumwave 638,720 and 1322kHz. Full details of trs on MW and SW are included in the BBC schedule under Great Britain.

BRITISH FORCES BROADC. SCE. CYPRUS

is operated by the Ministry of Defence to provide a sce. of information, entertainment as well as a link with home for HM Forces in Cyprus. It is non-comm, does not accept adv.
ADDR: BFBS Cyprus, BFPO53 – **L.P:** St.Contr: R.W. Morgan. Eng.-in-Charge: E.C. O'Gorman. Sen.Prgr. Organizer: A. Grace.
STATIONS: Nicosia 1502kHz 1kW – Akrotiri 92.1MHz 20kW – Dhekelia 99.6MHz 20kW – Nicosia 89.9MHz 0.05kW.
D.PRGR: W 0400-0800, 0900-1230, 1500-2000; Sat 0400-1230, 1500-2100; Sun 0500-2000 – **N:** 0400(W), 0500(W), 0600(Sun), 1800, 1900(Sat) – **Wrp:** W 0414, 0459, 1605, 2000; Sat 0659, 1230, 2100; Sun 0730, 1558, 2000 – **Rlg:** 0430(W), 0600(W), 0715(Sun).

ANN: "This is the British Forces Broadc. Sce. Cyprus" – **INT-SIG:** "Strings on Parade" (Martin), vibraphone or light orchestra – **V.** by QSL-card – **PUB:** "Radio News" Rp.

IRAN

L.T: GMT+3½h – **Pr.L:** Farsi – EC: a/c 50 (yes).

DIRECTOR GENERAL OF TELECOMMUNICATIONS

ADDR: Tehran. **Cable:** Dirgentel.
L.P: Dir.Gen. A. Hakimian.

NATIONAL IRANIAN RADIO & TELEVISION (Gov.)

ADDR: P.O. Box 33-200 Tajrish, Pahlavi Road, Jame-Jam Ave, Tehran. **Te:** 2961. **Telex:** 2797. **Cable:** Telmel.
L.P: Dir.Gen: Reza Ghotbi; Dep.Dir.Gen(Broadc): M. Jafarian; Dep.Gen(Strategy and Planning): K. Mahmoudi; Dep.Gen(Culture and Art): F. Ghaffari; Radio Netw. Dir: Pasha Samii; Techn.Dir: C. Hedayat; Radio Production Dir: T. Farazmand; Dir.Int.Prgrs: C. Ramtin; Radio News Dir: N. Solymani; External Sce (Europe and the Americas Div): M. Fracyon; Asia and the Mid-East Prgrs Dir: A. Mir-Aftabi.
SHORTWAVES (G.C: Tehran 51.27E/35.41N; Kalamabad 51.27E/35.46N):

1st PRGR. & Foreign Service

kHz	kW	Times	kHz	kW	Times
7135	100	0230-1330	11930	100	1400-2030
7215	100	1530-2030	15084	250	0600-0230
9022	350	1630-0230	15315	100	0430-1420
9765	100	0300-0230	17730	350	0630-1630
11735	100	1430-1520			

MEDIUMWAVES

kHz	kW	Location and times
521	2×10	Iran-Shahr(1st Prgr): 0100-2200
558	2×1000/100	Qazvin: 24h
576	600	Abadan: 0300-1500
	10	Abadan: 1500-2200
580	100/10	Tehran: 24h
612	400	Qasr-e-Shirin: 0230-1600
	200	Qasr-e-Shirin: 1600-2200
621	2×10	Birjand: 0230-2100
638	2×400	Bonab: 1730-2030
645	100	Tabriz: 1330-1830
666	100/10	Ahvaz: 0230-2130
680	100	Rasht: 0230-2130
680	10	Zibakenar: 0230-2130
720	2×400	Taybad: 0230-1600
738	10/1	Mashhad: 0230-2045
777	100/10	Zahedan: 0230-2045
783	2×10	Iran-Shahr: 0100-2200
819	2×10	Sari: 0330-2130
820	10	Yazd: 0230-0830,1030-1230, 1430-2000
846	2×1	Damghan: 0200-2100
897	10/1	Mahabad: 0230-2045
900	10	Kermanshah: 0100-2200
918	2×1	Jiroft: 0200-2100
933	10/1	Rezaieh: 0230-2130
945	10	Marivan: 0200-2030
963	2×10	Birjand: 0200-2100
967	10/1	Shiraz: 0230-2400
972	1	Ilam: 0200-2100
976	1	Khoramabad: 0330-2200
985	100/10	Kermanshah: 0230-2200
990	400	Shiraz: 0100-2200
1008	2×10	Semnan: 0200-2100
1052	20	Yazd: 0100-2200
1062	2×10	Kerman: 0100-2200
1080	600	Abadan: 1500-2200
1100	10/1	Isfahan: 24h.
1116	2×125	Bandar-e-Lengeh: 1630-1930
1170	2×1	Damghan: 0230-2100
1188	3×100	Tehran: 24h
1215	2×10	Darya (Chalus): 0530-2130(Summer)
1240	1	Sari: 0330-2130
1251	2×10	Sari
1278	100	Kermanshah: 0100-2200
1314	2×10	Ardabil: 0200-2230 (rep on 1340kHz)
1332	2×100	Tehran: 0330-2200
1341	1	Bam: 0330-1200,1330-1930
1386	2×400	Ahvaz: 0230-2045 (rep on 1390kHz)
1395	10/1	Bandar Abbas: 0230-2045
1422	100	Kermanshah: 0100-2200
1426	10/1	Gorgan: 0230-2045
1476	10/1	Sanandaj: 0230-2045 (rep on 1484kHz)
1485	1	14 sts of 1 kW
1500	10	Tabriz: 0230-2130
1500	1	Ahvaz: 0230-2130
1520	1	Hamadan: 0230-0830,1130-1930
1530	10	Yazd: 1600-2200
	20	Yazd: 0100-1600
1538	1	Bandar Boushehr: 0430-0830,1030-1700
1539	2×1	Khash: 0330-2030
1548	20	Marivan: 0200-2100
1555	2×10	Tehran: 0200-2100
1584	1	13 sts of 1kW
1602	1	19 sts of 1kW

FM STATIONS

Abadan: 93.7/98.8MHz (10kW) – Isfahan: 95.1/100.2MHz (10kW) – Tabriz: 90.1/95.2MHz (1kW) – Tehran: 90.0/93.5/98.6MHz (10kW) – Rasht: 88.3/98.5MHz (10kW) – Shiraz: 88.08/93.2MHz (1kW) – Mashhad: 88.3/93.5MHz (1kW).

HOME SERVICE (R. Iran)

1st Prgr: 24h. **N:** in Farsi: every h on the ½h 0030-1030 and 1230, 1430, 1530, 1630, 1830, 1930, 2130, 2230, 2330. **N.** at 0430, 1030, 1630 relayed by various Reg sts).
2nd Prgr. on 1332kHz in Farsi: 0300-2200. **N:** 0400, 1000, 1600.
3rd Prgr. on 90.0MHz in Farsi 1730-2030: Musical Prgr. in Stereo.

International language prgr. on 1555kHz/106MHz: 0230-2045. **N: English:** 0230, 0330, 0530, 0730, 0830, 0930, 1030, 1130, 1230, 1430, 1630, 1830, 2030. **French:** 0500, 1000, 1900. **German:** 1100, 1700. **Russian:** 1300.

Local Language Prgrs other than Farsi:

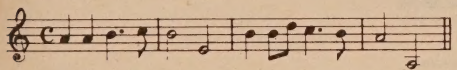
Armenian	kHz	Kurdish	kHz
1800-1830	645	1130-1200	897
Assyrian		1230-1300	897
1800-1830	933	1430-1500	897
Azarbaijani		1530-1600	897
1330-1500	645	1730-1800	897
1500-1630	933	(Northern Dialect)	
1430-1530	1340	1630-1830	612
Baluchi		1730-1830	638
0200-0300	777	1630-1730	933
1400-1500	777	(Sanandaji)	
Kurdish		1230-1430	1484
(Surani)		1830-1930	1484
0230-0530	612	(Urami)	
1330-1630	612	1430-1630	645
0300-0330	897	(Quchani)	
0445-0630	897	1545-1630	738

FOREIGN SERVICE

Areas: I=N. America; II=So. Asia; III=No. Africa; IV=Middle East; V=Persian Gulf; VI=Europe.

Arabic	Area	kHz	Persian	Area	kHz
0530-0830	IV	612	0630-1625	I,III,VI	17730
1830-2200	IV	612	1400-2030	VI	11930
0730-0830	V,III,IV	1390	1630-1725	VI,I,III	9022
1530-2130	V,III,IV	1390	2030-0230	VI,I	9022
1830-1900	IV	7215	(Special Persian)		
1830-1900	III	9022	2030-0230	I	15084
Azarbaijani			2330-0230	I	9765
1630-1730	IV,III	638	**Pushto**		
English			1430-1530	II,III	11735
2000-2025	VI	9022			
French			**Russian**	**Area**	**kHz**
1930-2000	VI	9022	1730-1800	VI	9022
German			**Turkish**		
1900-1930	VI	9022	1800-1830	IV,VI	9022
Persian			**Turkoman**		
0245-0330	II	7135	0230-0330	II,III	1426
1530-1820	II	7215	0830-0930	II,III	1426
1900-2030	IV	7215	1430-1630	II,III	1426
0430-1320	IV	15315	**Urdu**		
0600-2030	VI,I	15084	1500-1630	II	777

ANN: E: "This is Tehran, the Voice of Iran". F: "Ici Téhran, la Voix d'Iran". R: "Govorit Tegeran, Colos Iran". Turkish: "Burasi Tehran, Iran Sisi". Arabic: "Hona Tehran, Sout-il-Iran". Persian: "Inja Tehran, Radio Iran". Special Persian: "Inja Tehran, Sedai Iran" – **INT-SIG:** Iranian melody on vibraphone.



V. by QSL-card or letter, and some on the air. Rec. acc Re. to NIRT External Broadcasts, P.O. Box 41-3456, Tehran – **PUB:** "Tamash" – weekly magazine in Farsi.
F.PL: Eight 500kW (2 reserves) SW-trs in the planning stage.

RADIO NAFT-E-MELLI (Gov.)

ADDR: Abadan. **Te:** 5625.
L.P: Mgr: A Fatourechian.
STATION: 1160kHz 10kW.
D.Prgr: 0130-2200. **N** (relay Tehran): 0430, 1030, 1830.
Local N: 0630, 0830, 1030, 1530.

IRAQ

L.T: GMT+3h – **Pr.L:** Arabic, Kurdish, Turkuman – **E.C:** a/c 50, 220/380V (yes).

BROADCASTING SERVICE OF THE REPUBLIC OF IRAQ

ADDR: Iraqi Broadcasting and TV Establishment, Salihiya, Baghdad. **Te:** 31151. **Cable:** Idaa'h. **Telex:** 2246 Idah'IK.
L.P: Dir.Gen: L.N. Al-Dulaimi. Asst.Dir.Gen: K. Abdul Hakeem. Dir.Tec: M.F. Rashid.
STATIONS: Mediumwaves

Location	kHz	kW	Location	kHz	kW
Basrah	692	1200	–	1030	–
Baghdad (Hurriyah)	760	300	Babylon	1034	2000
Baghdad (Thourah)	908	200	Arbil	1195	50
			Kirkuk	1360	240

Shortwaves: B=Baghdad; AG=Abu Ghurayb (G.C: 44.15E/33.19N), SP=Salmon Pak (G.C: 44.35E/33.09n). *) 100/250kW – **) 100/200kW – v) Varying.

St.	kHz	kW	St.	kHz	kW	St.	kHz	kW
B	3195	50	SP	6155	**	AG	9758	*
SP	3243v	50	AG	7196	*	SP	11785	100
SP	3952	50	AG	7225	250	SP	15400	100
AG	6030	*	SP	9652	100	AG	17770	*
SP	6095	100						

HOME SERVICE: Main Prgr. in Arabic: 0228-2320. 0228-0605 on 908/1038/6095/6155/7196/9652/17770kHz, 0605-0800 on 908/1034/6095/6155/7196(to 0705)/9652/11785kHz, 0800-1000 on 908/1034/7196(from 0900)/11785(to 0900)kHz, 1000-1630 on 692(1500-1600)/908/1034/3952(1300-1600), 6095/6155(from 1400)/7196/9652(to 1345)/11785/17770kHz, 1630-1900 on 692(from 1800)/908/1034/6095(to 1655)/6155(from 1730)/7196/11785/17770kHz, 1900-2320 on 692(to 2120)/908/1034/3952(from 1930)/6155/7196(from 2000)/11785/17770kHz. **N:** 0300, 0400, 0600, 0700, 1000, 1130, 1500, 1700, 1900, 2100, 2300.

Kurdish: 0258-0855, 1230-2200 on 1360/3243/6030kHz. **N:** 0430, 0530, 0700, 0800, 1330, 1600, 1630, 1900, 2000, 2100. **Syriac:** 1400-1600 on 3195kHz – **Turkuman:** 0900-1225 on 1360/3243/6030kHz. **N:** 1000, 1100, 1130.

"Voice of the Masses" in Arabic: 0228-2320. 0228-0800 on 1195/7225kHz, 0800-1000 on 1195kHz, 1000-1600 on 1195/7225kHz, 1400-1900 on 1195kHz, 1500-1930 on 9758kHz, 1600-2320 on 692(to 1800)/760 (exc. 1730-1830)/3952(to 1830)/7225kHz – **"Voice of Palestine":** 1730-1830 on 760kHz.

FOREIGN SERVICE

I=Near & Middle East; II=Europe: III=Ea. Africa; IV=So. Ea. Africa; V=Israel; VI="Voice of the Masses" for ex-patriots.

Arabic	Area	kHz	Persian	Area	kHz
1630-1930	VI	9758	0800-1100	I	3195
					3952
			1600-1900	I	3195
English					6095
1930-2030	III	9758	**Russian**		
French			1900-2000	II	7196
2110-2200	II	9758	**Swahili**		
			1345-1445	III	9652
German			**Turkish**		
2030-2130	II	9758	1900-2100	II	3195
Hebrew			**Urdu**		
1630-1730	V	6155	1400-1500	IV	15400

ANN: "Idha at Al-Jemhoriya Al-Iraqiya Fi Baghdad" (The broadc. Sce of the Iraqi Republic in Baghdad). E: "This is R. Baghdad". F: "Ici R. Baghdad". G: "Hier ist R. Baghdad" "Sowt il Thowran il Faltestiniyah, Sowt il Lashnat il Merkaziyak" (Voice of the Palestinian Revolution, Voice of the Central Committee") – **INT-SIG:** Soft chirps of a mechanical nightingale – **V.** by QSL-card.

ISRAEL

L.T: GMT+2h – **Pr.L:** Hebrew, Arabic – **E.C:** a/c 50, 230/400V (yes).

DIRECTORATE GENERAL

ADDR: Ministry of Communications, 91 999 Jerusalem.
Cable: Gentel.

L.P: Dir.Gen: M. Gidron. Dir.Eng: A. Berenthal. Eng. Radio and TV Broadc. Div: P.O. Box 29107, Tel Aviv. **Te:** 610211. **Telex:** 33818.

ISRAEL BROADCASTING AUTHORITY

ADDR: P.O. Box 7139, Jerusalem. **Te:** 521111. **Telex:** 25398. Main Studios: Heleni Hamalka 21, P.O. Box 1082. **Te:** 248161. **Cable:** Kolisrael. **Telex:** 25263.
L.P: Dir.Gen: Yitzhak Livni. Asst.Dir.Gen: Shlomo Abbadi. Dir.Radio: Hagai Pinsker. Dir.TV: Arnon Zuckerman. Dir.Eng: Shlomo Gal. Dir. Overseas Sces: Victor Grayewsky. Coordination Eng: Fred Z. Stockheim.

STATIONS: Mediumwaves

	kHz	kW	Prgr.		kHz	kW	Prgr.
Jerusalem	529	200	C	Safad	845	5	B
Quadima	575	200	A	Beit Hillel	881	1	B
Jerusalem	647	10	B	Yavneh	1025	50	D
Yavneh	656	200	B	Jerusalem	1169	1	A
Ramallah	674	20	D	Eilat	1169	0.13	B
Jerusalem	710	1	B	Acre	1205	10	B
Quadima	737	1200	d+E	Eilat	1358	0.13	A

FM: Prgr. A: 91.3/89.4/88.8/94.2/99.25/90.9/94.2/97.8MHz. **Prgr. B:** 95.5/103.2/103.8/102.3/97.2/94.8/101.1/100.2/101.7MHz. **Prgr. D:** 90.3MHz.
Shortwaves: 1×20, 5×45, 3×75, 1×100, 1×150, 4×300kW trs.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
*5882	*7412	9630	11745	15130	15405	17685
5900	7445	9725	11775	15165	15415	17785
5915	7460	9785	11790	15200	15425	17815
5945	7462	9815	11960	15230	15435	21590
5950	9009	11602	11965	15240	15460	21625
6170	9355	11625	12025	15260	15485	25605
6180	9425	11640	12045	15280	15490	
7125	9435	11645	*12077	15305	15510	
7225	9440	11655	13365	15310	15512	
7320	9495	11700	15100	15330	15545	
7395	9505	11735	15125	15335	17630	

*) actual freq; 0.5kHz higher.
HOME SCE: Prgr. "A" 0500-2205 (in Hebrew exc. 1645-1845 when various languages for immigrants).
N: Every other h on the h.

Prgr. "B" (Commercial): 0400(Sat 0500)-2305.
N: Every h on the h.

Prgr. "C" (Commercial): Pop and light music: 0400-2305(Sat 0500-2305).
N: Every h on the h.

Prgr. "D" (Arabic): 0415-2200 exc. **English:** 0500-0515, 1200-1230, 1600-1605, 1800-1815, **French:** 0515-0530, 1230-1300, 1605-1610, 1815-1830.

FOREIGN SERVICES (Prgr. "E")

1977 schedules (subject to change). **N.B:** full schedule is broadcasts in English Thursdays 2025 and 2255(approx).
Areas: I=Europe/Middle East; II=No. America/We. Europe; III=Iran, IV=So. and Ea. Asia; V=So.Africa; VI=So. France/No. Africa/Ce. America; VII=We. Africa; VIII=West Coast No. America/No. Europe; IX-=Australia/N. Zealand.
Seasons: D=Nov/Feb; M+S=Mar/Apr+Sep/Oct; J=May/Aug.

HOME SERVICE (Prgr. B)

Hebrew	Season	kHz
0400-0600	D	656/*5882/*7462/9355/*12077
0600-1900	D	656/*9355/*12077
1900-2305	D	as 0400
0400-0700	M+S	656/*7462/9355/*12077
0700-1845	M+S	656/*12077/*15512
1900-2305	M+S	as 0400
0400-0600	J	656/*7462/9355/*12077
0600-2000	J	656/*12077/*15512
2000-2205	J	as 0400

Arabic (for Europe/Mid. East) (Prgr. D): 0415-2220 on 737/5915kHz.

FOREIGN LANGUAGE PROGRAMMES

English	Area	Season	kHz
0500-0515	I/II	D	737,5900,7395,*7412,9815
		M+S	737,7395,*7412,9009,9815
		J	737,*7412,9009,9815
	VIII	D	*7412,9009
		M+S	9815,12025
		J	9815,12025
	IX	all	12045
1200-1230	I	all	737
	II	all	11655,12025,15100,15485 (also 17685 during M+S+J)
	IV	all	15465
2000-2030	I/II	D	5900,*7412
		M+S	*7412,9815
		J	9815,11645
	VII	all	9425
	V	D/M+S	9009,15540
		J	9009
2230-2300	II	D	*7412,5900,9435,9815
		M+S/J	*7412,9009,9435,9815
	VI	all	9435
	XIII	all	9815
French			
0515-0530	I/II		as English 0500
1230-1300	II		as English 1200
2030-2055			as English 2000
2200-2230			as English 2230
Georgian			
1515-1530	I	D	11960,15100,15485
		M+S	12025,15100,15485
		J	15100,15485,17815
1715-1730		D	575,7395,9009,11655,12025
		M+S/J	575,7395,9009,11655,15100
Hebrew			
1830-1900	I/II	D	9009,9630,11700,11960
		M+S/J	9009,11960,12025,15100, 15485,17815
	V	all	15540
Hungarian			
1715-1730	I	D	5900/7412
		M+S	7412/9815
		J	9815/12025
Ladino			
1800-1815	I	D	575,9355,12077
		M+S/J	575,12077,15512
Mograbit			
1815-1830	VI	D	11645
		M+S/J	12077,15512
Persian			
1645-1715	III	D	7395,9009,11655,12025
		M+S/J	7395,9009,11655,15100
Romanian			
1730-1755	I	D	5900,7412,9009
		M+S	7412,9009,9815
		J	9009,9815,12025
Russian			
0345-0415	I	D	737,9630,11960,12045
		M+S	737,9630,9815,11960,15100
		J	737,11960,15100 15485,17685,17815
0535-0600	I	D	11960,15100,15485,17685, 17815
		M+S	15100,15485,17685,17815, 21625
		J	15100,15485,17685,17815, 21590
1000-1030 (Sat+Sun)	I	D	15100,15485,17685,17815, 21625
		M+S/J	15100,15485,17685,17815, 21625
1430-1515		D	11960,15100,15425,15485, 17815
1600-1640		M+S	11960,12025,15100,15485, 17815

TUNE TO ISRAEL RADIO
IN 13 LANGUAGES!

HEBREW

ARABIC

ENGLISH

FRENCH

RUSSIAN

GEORGIAN

LADINO

MOGRABIT

PERSIAN

HUNGARIAN

RUMANIAN

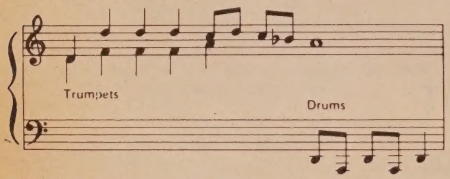
YIDDISH

SPANISH

Address: ISRAEL BROADCASTING AUTHORITY
OVERSEAS SERVICE
P.O. BOX 1082
JERUSALEM

Russian	Area	Season	kHz
1600-1640		J	15100,15485,17685,17815, 21625
1800-1830 }	I	D	*7412,9009,9630,11960,15100
1900-1955a }		M+S	9009,9630,9815,11960
a) also on 737kHz			12025,15100,15485
		J	11960,15100,15485,17815, 21625
2100-2155	I	D	*7412,9009,9630,9815
		M+S	*7412,9009,9630,9815 12025
		J	9815,11960,12025,15100 15485,17815
Yiddish			
1400-1430	I/II	D	11960,15100,15425,15485, 17815,21625
		M+S	12025,15100,15405,15485, 17685,17815,21625
		J	15100,15240,15405,15485, 17685,17815,21625
1530-1600	I/II	D	11960,12025,15100,15240, 15425,15485
		M+S	11960,12025,15100,15405, 15485,17685,17815,21625
		J	15100,15240,15405,15485, 17685,17815,21625

DX/PRGR: Sat 2030 in English transmission.
ANN: Prgr A: "Shidurei Israel Mi Yerushalayim b'Reshet Aleph". Prgr B: "Kan Shidurei Israel Mi Yerushalayim b'Reshet Bet". Prgr D: "Dar el Erza'a il Israeliya, Min Urshalem-El Kuds". Yiddish: "Hert zu der yisrael odizie im yiddish fyn yerushalayion". Ladino: "Emission de yisrael en a langua Judeo-espagnol". Sp: "Transmite Shidurei Israel". E: "This is Israel broadcasting from Jerusalem". French: "Ici Jerusalem, Radiodiffusion Israelienne" – **INT-SIG:** Foreign Sce: (Hatiqua) Nat. Hymn.



V. by QSL-card. Re. to IBA, Oveseas Sces, P.O. Box 1082, Jerusalem – **PUB:** Overs. Prgr. schedule free of charge – **F.PI:** English, French, Spanish, Hebrew to the Americas 2300-0400.

GALEI ZAHAL (Israel Defence Forces Station)

ADDR: Military Post Office 1005, Tel Aviv.
L.P: Dir: M. Naor.

STATIONS:	kHz	kW		kHz	kW
Tel Aviv	1286	20	Golan	1367	5
Haifa	1304	5	Tel Aviv	2442	1
Beersheba	1367	5			

FM: Tel Aviv 107MHz 0.05kW.
Relay sts: We. Sinai 1286kHz 5kW; So. Sinai 1367kHz 0.3kW; El Arish 1439kHz 10kW.
D.PRGRS: 24h(in hebrew).
N: Every h on the h.
ANN: "Galei Tsahal, Shidure Tsva Haganah Le' Yisrael" – **V.** by QSL-card.

JORDAN

L.T: GMT+2h(Su: GMT+3h) – **Pr.L:** Arabic, English. **E.C:** a/c 50, 220V (yes).

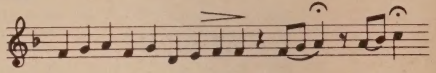
HASHEMITE KINGDOM BROADCASTING SERVICE (Gov.)

ADDR: P.O. Box 909, Amman. **Te:** 37711. **Cable:** Broadcasting.
L.P: Minister of Inf: A. Odeh. Dir.Gen: M. Keilani. Dir.Tec: O. Asfoura. Dir.Prgr: M.D. Shukayr. Dir.Adm: S. Said.

STATIONS Amman (G.C: 35.56E/31.57N): 1×5, 1×7.5 and 1×100kW SW trs – *) Ajlun.

kHz	kW	kHz	kW	kHz	kW
*593	600	7155	7.5/100	9560	100
800	200	9530	100	11810	5
856	10				

FM: 102.9MHz.
HOME SCE. in Arabic: 0330-2310 on 800/11810kHz, 0330-0730 on 7155kHz (100kW), 0930-1400 on 9530kHz (100kW), 1430-1730 on 7155kHz (7.5kW), 1900-2310 on 7155kHz (100kW).
N: Every h on the h.
English: 0500-0600 on 856kHz, 1000-1300 on 856/7155kHz (7.5kW), 1500-1730 on 856/9560kHz.
N: 0530, 1100, 1200, 1600, 1700.
Educational and Music Prgr. on 856kHz: 0600-1000, 1730-1755. Antenna beam 11810kHz (No. Africa).
ANN: Arabic: "Huna Amman Ithaatul Mamlakate Al Urdoniete Al Hashemieh". E: "This is R. Jordan, broadc. from Amman" – **INT-SIG:** Clarinet, piano.



V. by QSL-card or letter. Rec. acc.

KUWAIT

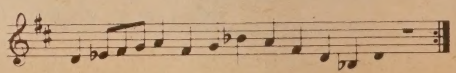
L.T: GMT+3h – **Pr.L:** Arabic – **E.C:** a/c 50, 240V (no).

KUWAIT BROADCASTING & TELEVISION SCE (Gov.)

ADDR: Ministry of Information, P.O. Box 193, Kuwait. **Te:** 427141. **Cable:** Alirshad.
L.P: Under Secr: Sa'dun Al-Jassim. Asst. Under Secr: (Adm. and Finance): A.A. Samad. Asst. Under Secr(Broadc): A.A. Ja'far. Asst. Under Secr.(Eng. Affairs): A.E. Houty. Tec. Adviser: R. Karrer. Chief Eng: Jawad Al-Mazeedi.
STATIONS (Sulabiya) (G.C: 47.53E/29.16N): 4×250kW SW-trs; 1×50kW at Magwa; 3×750kW MW-trs with facility to add and get 1500kW.

kHz	kW	Prgr.	Times	kHz	kW	Prgr.	Times
539	750	M	0225-2210	9580	250	E	1700-2000
1133	750	S	0900-1500	9650	50	M	0225-0130
1133	750	E/U	0500-0800	9715	250	M	1600-1800
			1500-2300				1830-2115
1345	200	M	0225-2210	11825	250	M	0815-1115
6055	250	M	0400-0735	11845	250	E	1700-2000
			1600-2115	11940	250	M	0815-1505
7120	250	M	0815-1430	15345	250	E	0500-0800
9520	250	M	0400-1530	15415	250	M	1000-1505
9555	250	U/E	1500-2000				

FM: 98.8MHz 5kW 0600-2300 English(stereo).
Main Prgr (M) in Arabic (for Arabic speaking world): 0225-2210. **N:** 0300, 0400, 0500, 0730, 1000, 1300, 1700, 1900, 2100, 2200.
Second Prgr(S) in Arabic: 0900-1500. **N:** 1130,1230, 1330, 1430, 1530.
English Prgr (E): 0500-0800 on 1133/15345kHz; 1700-2000 on 1133/9555/9580/11845kHz; 2000-2300 on 1133kHz.
Urdu Prgr(U): 1500-1700 on 1133/9555kHz.
ANN: "Huna al Kuwait". E: "This is Radio Kuwait".
INT-SIG: An old Kuwaiti tune played on klarinet SIB:



V. by QSL-card. Rec. acc. Re. to P.O. Box 397, Kuwait (9 studios).

LEBANON

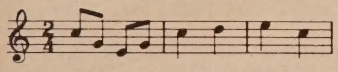
L.T: GMT+2h (1/5-30/9: GMT+3H) – **Pr.L:** Arabic, French, English, Armenian – **E.C:** a/c 50/110/190V (no).

RADIO LEBANON (Gov.)

ADDR: Ministry of Information, Lebanese Broadcasting Station, Beirut.
STATIONS (G.C: 35.38E/34.08N); SW 1×100kW at Amshit.

kHz	kW	Times	kHz	kW	Times
836	100	0400-2400	9545	100	0930-1615
5980	100	0400-0730 1630-1830	11800	100	1900-2200

FM: 98.3MHz – 10kW: 0400-2400.
N: Arabic: 0415, from 0500 every h. on the h. **French:** 1130, 1730, 2030.
ANN: Arabic: "Iza'at Loubnan min Beirut"; French: "Ici Radio Liban émettant de Beyrouth" or "Ici Beyrouth – Radiodif. de la Rep. Libanaise" – **INT-SIG:** Guitar notes from the Libanese National Anthem:



RADIO LEBANON (Moslem controlled)

STATIONS: 989kHz 10kW; FM (12kW): 96.2MHz or 88.7MHz.
D.PRGRS: in Arabic: 0400-2330. **N: Arabic:** 0415, from 0500 every h. on the h. **French:** 0530, 1130, 1730.
ANN: Arabic: "Iza'at Loubnan min Beirut" or "Iza'at Sowt el Watan el Arabi" ("Voice of the Arab Nation Radio"). French: "Ici Beyrouth, Radiodif. Libanaise".

VOICE OF LEBANON (Lebanese National Movement, Christian controlled).

STATIONS: 850kHz 1kW, 6580kHz 0.5kW.
D.PRGRS: 0600-0900, 1100-1300, 1600-1930.
N. in Arabic: 0615, 0800, 1215, 1715, 1915. **N.** In **English:** 1700.
French: 1115-1130, 1615-1700. **N:** 1115, 1645.
ANN: Arabic: "Sowt el Loubnan". French: "Ici La Voix du Liban émettant sur 350.8m. onde moyenne et sur 45.6m. onde courte, La Voix du Movement National Libanais". Opens and closes with "River Kwai" march.

VOICE OF PALESTINE (operated by the PLO)

STATION: 1515kHz 10kW.
D.PRGRS in Arabic: 0500-0600, 1100-1400, 1700-2100.
N. every h. on the ½-h. **English** 1800, **French** 1815.
ANN: "Sowt il Falastin, sowt il thowrah il falastiniya".

Obs: Frequent changes continue to be the rule of the day, so certain details may be outdated when you read this.

OMAN (Sultanate of)

L.T: GMT+4h – **Pr.L:** Arabic – **EC:** a/c 50, 220V.

RADIO OMAN (Gov.)

ADDR: Ministry of Information & Culture, P.O. Box 600, Muscat. **Telex:** MB 265 Infomus. **Cable:** Information.
L.P: Dir.Gen: H.E. Salim Said Al Siyabi. Dir.Tec: H. Al Kindy.

STATIONS: a) not yet in operation.

Location	kHz	kW	Location	kHz	kW
Salalah	1035	100	Muscat	4886a	10
Muscat	1240	100	Muscat	6174	50
Muscat	1272a	20	Muscat	11890	50

D.PRGRS in Arabic: On 1240kHz: 0200-0720(Fri 0900), 1100-2010; On 1035kHz: 1200-1900. On 11890kHz: 0345-0705(Fri 0900), 1100-1315; On 6174kHz: 1350-2010. **N:** 0300,0700(ex. Fri), 0830(Fri), 1300,1600,1700,1900,2000.
English: 0900-1100 on 1240/11890kHz: **N:** 0901,1030.
ANN: "Idahat-o Oman Min Muscat"; E: "This is the English Sce. of R. Oman" – **V.** by QSL-card – **F.PI:** Increase of power on one MW. to cover the Gulf, No. Africa, Southern Iran, Western India. All English Sce. to start on 1272kHz.

BBC EASTERN RELAY (Masirah Island)

2×750kW transmitters. Relays of BBC Arabic, Hindi, Persian, Urdu and World Services on mediumwave 700, 701, 1410 and 1412kHz.
Full details of transmitters are included in the BBC schedule under Great Britain.

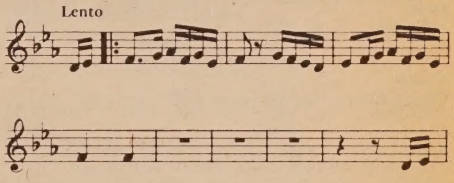
F.PI: 2×250kW SW-trs under construction for operation by mid-1977.

QATAR

L.T: GMT+3h – **Pr.L:** Arabic.

QATAR BROADCASTING SERVICE (Gov.)

ADDR: Ministry of Information, P.O. Box 1836, Doha. **Cable:** Information.
L.P: Minister of Inf: H.E. Issa Ghanim Al-Kawari. Dir. of Broadc: M. Madhadi. Dir. of Eng: R. Briggs. Transmitter Eng: M. Maksoud.
STATIONS (G.C: 51.30E/5.12N):
674kHz 50kW – 952kHz 750kW – 995kHz 10kW – 9570kHz 100kW – **FM:** 97.5MHz 35kW, 88.9MHz.
HOME SCE: Arabic: 0245-0705 on 674/952/9570kHz, 0705-0900 on 674kHz(exc. Fri: 952/9570kHz), 0900-1400 on 674/9570kHz(+Fri 952kHz), 1400-2100 on 674/952/9570kHz.
N: 0330,0430,0530,0700,1030,1200,1300,1530,1700,1800,2000.
English: 1400-1705 on 995kHz/95.7MHz. **N:** 1500.
ANN: "Idha'at at Qatar Min al-Dauha". E: "This is the Qatar Broadcasting St. from Doha" – **INT-SIG:** Arabic melody on string instrument (23 notes):



V. by QSL-card.

SAUDI ARABIA

L.T: GMT+3h – **Pr.L:** Arabic – **E.C:** a/c 50 or 60, 120/208 or 230/415V (variable).

MINISTER OF COMMUNICATIONS, Posts and Telecommunications Affairs, Riyadh. Cable: Postgen.

L.P: Minister of Communications: H.E. Mr. M. Omar Tawfik.

BROADCASTING SERVICE OF THE KINGDOM OF SAUDI ARABIA (Gov.)

ADDR: Ministry of Information, Riyadh. **Cable:** Information Ministry. **Te:** 25500.
L.P: Minister of Inf: H.E. Ibrahim Alangari. Dir.Gen. of Broadc: Khalid H. Ghouth. Dir.Gen. of Engineering: A.M. Swailem (Eng.Dept, Riyadh).
Regional addr: Dammam Broadc. St, P.O. Box 796, Ad-Dammam. **(V.** by letter).

STATIONS: (G.C: Jeddah 39.12E/21.88N: Riyadh 46.23E/24.30N).

R=Riyadh; J=Jeddah; d=Ad-Dammam; G=Gizan; N=Nuzla. Ta'if: freq. unknown.

Mediumwaves:

kHz	kW	St.	Times	kHz	kW	St.	Times
548	50	R	0530-1400	702	50	N	0300-2300
567	50	J	0300-2300	886	100	D	0300-2300
576	1	G	0300-0730	1217		R	0300-1600
			1000-1600	1220		R	0300-0400
587.5	1200	R	0300-0530				1700-2055
			1400-2300	1594	1	J	0300-0700
647	50	J	0300-2300				1100-2200

Shortwaves: 4 × 350kW; others 50kW.
All frequencies reported recently.

kHz	St.	kHz	St.	kHz	St.	kHz	St.
5960	R	9670	J	11890	R	17855	R
6000	R	9720	R	11940	R	21525	R
6080	R	9730	R	11950	R	21530	R
6130	R	11785	R	15115	J	21590	R
7110	R	11825	R	15405	R		
7220	R	11855	J	17765	R		
9580	R	11865	J	17775	R		

RIYADH SERVICE (incl. Ad-Dammam)
General Prgrs in Arabic: 0300-2300. **N:** 0400, 0600, 0830, 1100, 1400, 1700, 1800, 2000, 2230. **"Holy Qur'an":** 0300-0500, 1400-1800 on 548kHz; 1400-1700 on 15405kHz; 1600-1800 on 11940kHz. **English:** 1100-1255, 1800-2055 on 1222kHz/98.0MHz. **French:** 0500-0600, 1700-1800, on 1222kHz/98.0MHz. (1222kHz also reported to carry other foreign languages).

JEDDAH SERVICE
General Prgrs in Arabic: 0300-2300. **"Call of Islam"** (from Mecca:) 1500-1630 on 647/9670kHz. **"Holy Qur'an":** 0300-0500, 1300-1700 on 1594/11855kHz. **English:** 1100-1300, 1900-2200 on 1594/11855kHz. **French:** 0500-0700, 1700-1900 on 1594/11855kHz.

FOREIGN SERVICE
Areas: I=Europe, No. America, Near East; II=Ce. Africa; III=Indonesia; IV=India, Pakistan; V=Iran.

English	Area	kHz	Indonesian	Area	kHz
1000-1300	I	11855	1300-1350	III	15115
1900-2200	I	1220			17775
		11855	**Swahili**		
Farsi			1600-1700	II	1220
1500-1600	V	1220			11855
		11865	**Turkish**		
		15115	1700-1800	I	1220
French					5960
0500-0700	I	11855	**Urdu**		
1700-1900	I	1220	1400-1500	IV	15115
		11855			17765

ANN: Arabic (Riyadh): "Al-ithaa't'il Mamlakah t'il Arabiyah al Suadiyah min ar Riyadh wa Dammam". (Jeddah): ". . . min Jeddah". English: "This is the Broadc. Sce of the Kingdom of Saudi Arabia". – **INT-SIG:** Call to prayer (Az'an) played on flute – **V.** by QSL-card. Rec. acc. – **F.PL:** 2000kW on 611kHz, 2000kW on 548/1520kHz at Duba and Red Sea Coast near Sinai, 1000kW on 899kHz at Quarayat.

ARAMCO RADIO (Priv.)

This st. is erected for people serving Arabian American Oil Co. – **ADDR:** Box 96, Dhahran.

STATIONS: 0.1kW (omnidirectional)

	kHz	Prgr.		kHz	Prgr.
Abqaiq	1020	RR	Dhahran	1380	RR
Ras Tanura	1095	Pop	Abqaiq	1400	Pop
Ras Tanura	1195	RR	Dhahran	1450	Pop

FM: (Dhahran) 88.5MHz 1.025kW (RR), 95.5MHz 41kW (classical), 99.7MHz 41kW (Pop) (all in stereo). RR=Rock and Roll; Pop=Popular.
PRGRS: Music only – having three choices of the type of music; classical, popular, jive or jazz. There is also daily news 0830, 1500.

WRTH has the best and most complete information on short-wave than any other publication.

SYRIAN ARAB REPUBLIC

L.T: GMT+2(Su. GMT+3) – **Pr.L:** Arabic.
E.C: a/c 50, 115/200V (yes).

SYRIAN BROADC. AND TELEVISION ORGANISATION (Gov.)

ADDR: Place des Ommayades, Damascus. **Te:** 111200. **Cable:** Genrad.
L.P: Dir.Gen: Khudr Al Shar. Dir. Engineering: Dr. Michel Bara.

STATIONS: Mediumwaves

Location	kHz	kW	Location	kHz	kW
Homs	566	300	Damascus	872	10
Damascus	665	100	Deir-El-Zor	953	10
Aleppo	746	100	Tartus	1070	60
Tartus	782	600	Aleppo	1313	10
Deir-El-Zor	827	60			

Shortwaves: Sabboura (G.C: 36.07E/33.30N)

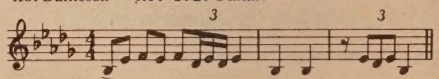
kHz	kW	kHz	kW	kHz	kW	kHz	kW
7105	50	9585	20	15165	50	15290	20
9545	50						

HOME SCE in Arabic: 0330-0800 on 566,665,746,782(exc. 0500-0630), 827,1070(0530-0630), 9585, 15290kHz; 0800-1100 on 566,665,746,782,827kHz; 1100-1215 on 566,665,746,782,827,7105kHz; 1215-1400 on 566,665,746,782,827,7105kHz; 1400-1530 on 566,665,746,827,1070,9585,15290kHz; 1530-2330 on 566,665,746,782,827,9585,15290kHz.
N: 0415, 0515, 0715, 0915, 1115, 1215, 1315, 1515, 1615, 1915, 2115, 2315.
Aleppo: 1630-1800 on 1313kHz. **Local N:** 1730-1740.
Western/Turkish Prgr: cf. External Sce. Also intended for listeners in Europe/Middle East.

EXTERNAL SERVICE
I=Western Turkish Prgr; II=to Israel; III=to Latin America.

Arabic	Prgr.	kHz	Hebrew	Prgr.	kHz
2315-2400	III	15165,15290	0500-0615	II	782,7105
Bulagian			1400-1530	II	782,7105
0615-0625a	II	782,7105	**Russian**		
English			0615-0625d	II	782,7105
0615-0625b	II	782,7105	1700-1800	I	872,1070
0700-0730	I	872,1070			9545
		1313,7105	**Serbo-Croat**		
2030-2200	I	872,1070	0615-0625e	II	782,7105
		1313,9545	**Spanish**		
French			0615-0625f	II	782,7105
0630-0700	I	872,1070	2230-2315	III	15165,15290
		1313-7105	**Turkish**		
1900-2030	I	872,1070	0615-0625g	II	782,7105
		1313,9545	1530-1630	I	1070,1313
German					7105
0615-0625c	II	782,7105	**Music**		
1800-1900	I	872,1070	0730-1000	I	872,1070
		1313,9545			1313

a) Sun; b) Fri; c) Thurs; d) Sat; e) Tues; f) Wed; g) Mon.
ANN: Arabic: "Eza'at el Jumhuriya il Arabiya es-Souriya min Dimashk"; E: "This is the Syrian Arab Republic Broadc. Sce from Damascus"; F: "Ici Damas"; Hebrew: "Kol Damesek" – **INT-SIG:** Guitar.



V. by QSL-card – **F.PL:** 750kW-MW-tr. at Deir el-Zor.

TURKEY

L.T: GMT+2h (Summer GMT+3h) – **Pr.L:** Turkish – **E.C:** a/c 50, 220/380V (yes).

DIRECTION GENERAL OF THE PTT,

Ankara. **Cable:** Gentel.
L.P: Dir.Gen: H. Göçeoglu.

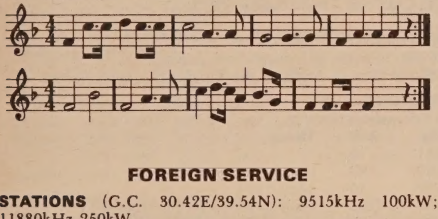
TURKISH RADIO-TELEVISION CORPORATION

ADDR: TRT Türkiye Radyo Televizyon Kurumu, Nevzat Tandogan Caddesi 2, Kavaklidere, Ankara. **Cable:** TRT. **Te:** 181130. **Telex:** 42374.
L.P: Dir.Gen: Prof. Dr. Saban Karatas. Asst.Dir.Gen(Prgr): Nahit Katlan. Asst.Dir.Gen(Tech): D. Erden. Asst. Dir.Gen(Adm): Dr. C. Taser. Secr.Gen: A. Gani Cinar. Legal Adviser: T. Gürzümar. Dir.Int.Rel: E. Rizi.

STATIONS

Location	N	kHz	kW	Location	N	kHz	kW
Ankara	2	1821	200	Izmir	3	1033	2
Ankara	1	200	240	Diyarbakir	1	1061	300
Erzurum	1	245	200	Kars	1	1165	2
Cukurova	*R	629	300	Adana (rep.)		1175	2
Istanbul	2	701	150	Van	P	1178	2
Antalya	1	890	600	Gaziantep	P	1210	2
Izmir	1	926	200	Ankara	3	1484	2
Istanbul	3	963	2	Trabzon	P	1484	2
Istanbul	1	1016	1200	Hakkari	P	7650	1

N=Network 1, 2 and 3; R=Regional; P=Provincial. *)=Tarsus.
FM: TRT-3 on 88MHz 0.25kW(Ankara) and 88.2MHz 100kW(Istanbul), 88MHz 100kW(Izmir), 94.4MHz 30kW(Eskişehir).
HOME SCE. TRT-1: 0255-2300 – **TRT-2:** 0600-2305, also 2305-0300 on 182 or 701kHz alternatively – **TRT-3:** 0455-2255 – **Regional:** 0255-2200 – **Provincial:** 0355-0800, 0955-1200, 1355-2115. Sun 0355-1200, 1355-2115.
ANN: "Burasi TRT-1", "Burasi TRT-2" – **INT-SIG:** R. TRT-1 and 2:



FOREIGN SERVICE

STATIONS (G.C. 30.42E/39.54N): 9515kHz 100kW; 11880kHz 250kW.

Arabic	kHz	German	kHz
1330-1430	11880	2100-2130	11880
Bulgarian		**Greek**	
1530-1600	11880	1500-1530	11880
English		**Rumanian**	
2200-0030	9515,11880	1430-1500	11880
French		**Serbo-Croat**	
2130-2200	11880	1600-1630	11880

DX-News in English daily 2230-2245.

GENERAL SERVICE IN TURKISH

(for Turks abroad)
On 9515kHz: 0355-2200; **On 11880kHz:** 0355-1330, 1630-2100.
ANN: E: "This is the Voice of Turkey". G: "Hier ist die Stimme der Türkei". Turkish: "Burasi Türkiyenin Sesi Radyosu" – **INT-SIG:** As for Home Sce – **V.** by QSL-card – **PUB:** "The Voice of Turkey Prgr sch" in English, French, German; "Turkiyenin Sesi Radyosu Program Bülteni" (Turkish every 3 months, free) – **ALF:** 10-40 Turkish Liras.

OTHER STATIONS

	kHz	kW	Times
1)	1200	0.5	0800-1000, 1300-1500
2)	6325	—	0900-1000, 1400-1500
3)	6340	—	0600-1100, 1200-1600, 1730-1900
4)	6440	0.45	—
5)	6608	0.15	1730-1830(W) (irr)
6)	6900	2.5	0400-0700, 0800-0940, 1200-1615, 1730-1830
1)	7100	0.25	0800-1000, 1300-1500
7)	7140	—	0800-1000
8)	7143	1.6	W: 1800-2000, Sun: 1100-1300
7)	7150	—	Sun: 0900-1000, 1200-1400 Wed-Sat: 1200-1400, Mon-Tues: 1300-1430
7)	7200	—	0700-0845, 1200-1400
9)	7280	1.75	1200-1400, 1600-1800
10)	99.6MHz	0.25	1800-2030(exc. Sat)

Addresses and other information
1) Cinarli Teknik Ve Endüstri I Meslek Liseleri Elektronik Bölümü Deneme Radyosu (Educational Schools), Izmir.
2) Istanbul Polis Radyosu, Istanbul, Short Turkish announcements, local music – **V.** occasionally by letter.
3) Türkiye Polis Radyosu, T.C. Içiçleri Bakanligi, Emniyet, Genel Müdürlügü, Ankara.
L.P: St.Dir: Mehmmet Gökay.
Prgrs consist of Turkish music and short announcements –
4) Ankara Tekni Okulu Radyosu, Ankara.
5) Eregli Kömür Isletmeleri, Eregli. (Eregli Coal Mines Administration). Frequency varies.
6) Turkish State Meteorological Service, P.O. Box 401, Ankara. **Te:** 141100. **Cable:** Meteor.
L.P: Dir.Gen: Prof. Dr. Akmet Rumeli. St.Mgr: N. Karaman.
Prgrs consist of Turkish music and weather reports on the hour – Int-Sig: Local instrument the "Saz" – **V.** by letter. Rp. Rec. acc.
7) High School Radio Stations. On 7140kHz: Turhal Lisesi Radyosu. On 7150kHz: Zile Lisesi Radyosu. On 7200kHz: Tokat Gz Osmanpaca Lisesi Radyosu.
Prgrs: Mainly Turkish music.
8) Istanbul Yüksek Teknik Okulu Radyosu, Yildiz, Istanbul.
D.Prgrs: Language Lessons (30 mins) and Music (Turkish and Western recordings) – **Ann:** "Burasi . . .".
9) Istanbul Universitesi Fen Fakültesi Radyosu, Denel Fizik Kürsüsü, Istanbul. **Te:** 276576.
L.P: Dir.Gen: Prof. Dr. C. Ener. St.Mgr: K. Erkü.
10) Teknik Universite Elektrik Fakültesi, Yüksek Frekans, Teknigi Kürsüsü, Istanbul. (Technical University of Istanbul) – Classical and Turkish music.
Int-Sig: "Turkish March" by Mozart.

AFRTS Communication facilities (US Air Force)

Adana	1590kHz	0.01kW: 24h
Diyarbakir	1570kHz	0.01kW: 24h relays Adana
Karamursel	1590kHz	0.01kW: 24h

UNITED ARAB EMIRATES

L.T: GMT+4h – **Pr.L:** Arabic.

DIRECTORATE GENERAL OF POSTS AND TELECOMMUNICATIONS

ADDR: Ministry of Communications, P.O. Box 902, Abu Dhabi.
L.P: Dir.Gen: S. Ali Al Mahmood.

VOICE OF THE UNITED ARAB EMIRATES (Gov.)

ADDR: P.O. Box 637, Abu-Dhabi.
L.P: Dir: A. Alnowais. Chief Eng: A. Kandeel. Contr. of Prgrs: A. Al-Mobarak.

STATIONS (G.C: 54.38E/34.19N):

kHz	kW	kHz	kW	kHz	kW
728	750	809	50	850	10
9620	120				

FM: 90.05MHz 0.05kW.
HOME SCE. in Arabic: 0200-0600(Fri 2100) on 809kHz, 0600-0900 on 850kHz, 0900-2100 on 809/9620kHz, 1500-1950 on 728kHz. **English:** 0900-1100(not Fri) on 850kHz.
ANN: "Sout al Emirat al-Arabiyah al-Mutahidah min Abu Dhabi" – **V.** by letter.

DUBAI BROADCASTING STATION (Gov.)

ADDR: P.O. Box 1695, Dubai.
STATIONS (G.C: 55.16E/25.14N)

kHz	kW	kHz	kW	kHz	kW
1106	10	1480	600	6040	10
1250	50				

FM: 92.0MHz.
D.PRGRS in Arabic: 0230-2045. **N:** 0315, 1000, 1330, 1600, 1700, 1900, 2030.
English on 1106kHz: 0230-1630. **N:** 0330, 1000, 1330, 1630.
ANN: "Iza'at al Dubai min al Emirat al-Arabiyah al Mutahidah" – **V.** by QSL-card.

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RAS AL KHAIMA BROADCASTING STATION (Gov.)

ADDR: P.O. Box 141, Ras Al Khaima.
L.P: St.Mgr: Abdulla Ahmed Al-Goug.
STATION: 1175kHz 10kW.
HOME SCE in Arabic: 0230-0610, 1200-1900. **English:** 1000-1100. **Urdu:** 1100-1200.
ANN: "Iza'at al-Emirat t'il Arabiyah t'il Mitahidah min al Ras al Khaima" – **V.** by letter.

SHARJAH BROADCASTING STATION (Gov.)

ADDR: P.O. Box 70, Sharjah. **Te:** 22550.
L.P: Gen.Mgr: Saeed Omarah. Chief Eng: M. El-Shafei.
STATION (G.C: 35.24N/55.21E): 1575kHz 50/5kW.
FM: 98.04MHz 1kW.
D.PRGRS in Arabic: 50kW: 0230-0500, 0900-1100, 1300-2000; 5kW: 0500-0900, 1100-1300. **FM:** 1300-2000(light music).
ANN: "Iza'at al Emirat t'il Arabiyah t'il Mutahidah ah min al Sharjah" – **V.** by QSL-card. Rec. acc.
F.PL: tests with 300kW on 1575kHz in 1976.

UMN AL-QUAYN BROADC. STATION (Gov.)

A new station is to be built in this UAE member state.

YEMEN ARAB REPUBLIC

L.T: GMT+3h – **Pr.L:** Arabic – **E.C:** a/c 50 (no).

RADIO SAN'A (Gov.)

ADDR: Ministry of Information, San'a.
L.P: Dir.Gen: A. Sarham. Dir.Tec: Ing. Hussein Numu.

STATIONS

*) Taiz, others San'a.

kHz	kW	Times
881	10	—
1000*	60	—
1202	10	1400-2200
4853	100	0300-0700(Fri 1000), 1100-2015
7235	50	0300-0700, 1100-2200
9780	50	0300-0700, 1100-2200

HOME SCE in Arabic: 0300-0700(Fri 1000), 1100-2200. **N:** 0430, 0655(exc. Fri), 0700(Fri only), 1200, 1400, 1700, 1830, 2000, 2145. **English lessons** daily 1630-1645. Palestine Liberation Organisation prgr. "On the Road to Liberation" Fri 1900-2000.
ANN: "Idha'at al Jumhuriyah al Arabiyah al Yamaniyah" – **V.** occasionally by letter. Rp.

YEMEN (People's Dem. Rep.)

L.T: GMT+3h – **Pr.L:** Arabic – **E.C:** a/c 50 (yes).

DEMOCRATIC YEMEN BROADCASTING SERVICE (Gov. Comm.)

ADDR: P.O. Box 1264, Ministry of Information, Aden. **Te:** 24875. **Cable:** Aelam.
L.P: Dir.Gen: Rashed M. Thabet. Dir.Prgrs: Abdul Rahman Balgone. Studio Eng: E. Kader. Dir. of Broadc: Mohamed Ali Azzani.

STATIONS: Al-Hiswah (G.C: 44.54E/12.45N)

kHz	kW	Times
755	50	0300-0530(Fri 1100), 1100-2200
5060	7.5	0300-0530(Fri 1100), 1100-2200
5970	100	0300-0530(Fri 1100), 1100-2200
7190	100	0300-0530(Fri 1100), 1100-2200
11770	100	1100-2200

HOME SCE in Arabic: as above. **N:** 0345, 0525, 0800, 1110, 1230, 1400, 1500, 1600, 1730, 1900, 2130. Popular Front for Liberation of Oman prgr. "Voice of the Omani Revolution" 1615-1700 daily.
ANN: "Idha'at al Jumhuriyah Al-Yemen Al-Dimucratia Ash-Shabeya Min Aden" – **V.** by QSL-card. Rp.

ASIA
(South and East Asia)

AFGHANISTAN

L.T: GMT+4½h – **Pr.L:** Pushto, Dari – **E.C:** a/c 50 (yes).

MINISTRY OF COMMUNICATIONS. Kabul.
Cable: Affel.
L.P: Minister of Communications: H.E.A. Hamid Muhtat.

RADIO AFGHANISTAN (Gov.)
ADDR: P.O. Box 544, Kabul. **Te:** 25241. **Cable:** Radioaf.
L.P: Pres: Eng. A.K. Attaie. Dir.Tec: Eng. K.D. Kamran. Head of Foreign Rel. Dept: Gul. Ahmad Jabar.
STATIONS: Kabul/Yakatut.
a)=Pol-e Charkhi. F=Foreign Sce. *)=inactive.

kHz	kW	Prgr.	Times	kHz	kW	Prgr.	Times
660	23	I	0730-1330	3390	10	II	1330-1430
		II	1330-1430			I	0130-0330
		I	1530-1730			I	1740-1830
1280a)	100	I	0130-0330	4775	100	I	0130-0830
		I	1330-1430			I	1530-1740
		II	1430-1530			F	1300-1530
		II	1530-1830	7200	50	I	0130-1430
*3285	100			15195	100	F	1000-1300

1st Prgr. in Pushto/Dari. **2nd Prgr:** 1330 Uzbek, 1345 Turkmani, 1415 Pashaie.

FOREIGN SERVICE

	Times	kHz		Times	kHz
Arabic	1000-1030	15195	Pushto/Dari	1200-1300	15195
English	1130-1200	15195	Russian	1030-1100	15195
	1400-1430	4775	Urdu	1300-1400	4775
German	1100-1130	15195			

ANN: Pushto: "Da Radio Afghanistan Kabul Dai" – **INT-SIG:** A record on national flute – **V.** by QSL-card. Rec. acc. Rp. required.

BANGLADESH (People's Rep. of)

L.T: GMT+6h – **Pr.L:** Bangla.

RADIO BANGLADESH (Gov.)
1st Addr: 145/A Road 2, Dhanmandi R/A, Dacca 5 – **2nd Addr:** 23/7 Shaymoli, B-Block, Dacca 7 – **3rd Addr:** Broadcasting House, 2/A Mymensingh Road, Dacca 2. **Cable:** Cebroadcast.
L.P: Dep.Dir.Gen: Y. Khan Chief Eng: B.M. Adhykari. Dep.Dir. Planning: Alimuzzaman.

STATIONS: Mediumwaves

	kHz	kW		kHz	kW
Dacca	690	1000	Rajshahi	1080	10
Dacca A	820	100	Sylhet	1140	5
Chittagong	870	10	Dacca B	1170	5
Rangpur	1050	10	Khulna	1340	10

HOME SCE: 0030-0400(Sun 0430) on 820/870/1050/1080/1140/1340kHz, 0600-0930(Sun 1000), 1030-1730 on 690/820/870/1050/1080/1140/1340kHz.

Shortwaves: Dacca (G.C: 90.12E/33.27N)

kHz	kW	Times	kHz	kW	Times
3965	7.5	1330-1730	6090	10	0600-0930
4790	10	1315-1330			(Sun 1000)
4890	100	0030-0400	6190	7.5	0030-0400
		(Sun 0430)			(Sun 0430)
6015	10	1030-1115,	7250	7.5	0600-0930(Sun
		1145-1300			1000), 1030-1315

FM: 105.5/106.5MHz (Dacca – 0.25kW).

GENERAL OVERSEAS SERVICE

kHz	kHz	kHz	kHz	kHz	kHz	kHz
11890	11940	15180	15270	15400	17890	21685

Schedule effective from Sept 5th, 1976.
*)=dictation news.

Arabic	kHz	Hindi	kHz
0515-0545	15400,17890, 21685	1600-1630	11890,15270
Bangla		**Nepali**	
1645-1815	11940,15180	1115-1145	11890,15270
English		**Punjabi**	
0445-0515	15400,17890, 21685	1500-1530	11890,15270
		Pushto	
1230-1300	11890,15270	1340-1400	11890,15270
1815-1900	11940,15180	**Urdu**	
1900-1915*	11940,15180	1400-1500	11890,15270

ANN: Bangla: "Bangladesh Betar"; E: "R. Bangladesh"; for GOS: "This is the General Overseas Sce of R. Bangladesh" – **INT-SIG:** Local composition of violin and tanpura – **V.** by QSL-card. Re. to 2nd addr – **PUB:** "Bangladesh Betar" in English monthly (free); "Betar Bangla" in Bangla fortnightly for HS (Annual subs. Taka 24,-) – **F.PL:** 100kW MW trs at Rajshahi, Chittagong in 1976/77. FM in Rajshahi around Dec. 1976 – **ALF:** Taka 15,-.

BHUTAN

L.T: GMT+6h – **Pr.L:** Dzongkha (Bhutani), Nepali.

RADIO NATIONAL YOUTH ASSOCIATION OF BHUTAN (NYAB)
ADDR: P.O. Box 1, Thimphu.
L.P: Dir.Gen: Phentok Fury. Prgr-in-Charge: Karma Dorji. R.Techn: Tenzin Dorji. Secretary: Mrs. Brigitte Dorji.
STATION: 7040kHz 0.3kW.
D.PRGR: Sun 0730-0930. Wed. 1230-1330. Dzonghka 0730-0820; Nepali 0820-0840; English 0840-0930 w/Listeners Choice, Top Ten.
V. by letter – **F.PI:** In foreseeable future a more powerful tr. and full time broadc.

BRUNEI
(British Protected State)

L.T: GMT+8h – **Pr.L:** Malay, English, Chinese.

RADIO TALIVISHEN BRUNEI (Gov.)
ADDR: Bandar Seri Bagawan, Brunei. **Te:** 3111. **Cable:** Broadcast. **Telex:** 228.
L.P: Contr: J.B. Millar, OBE. Asst.Contr: MD. Salleh Abdul Kadir. Chief Eng: N.J.A. Frigout. Chief News Editor: C.R. Cramer.

STATIONS (8 studios in Bandar Seri Begawan)

895kHz	10kW	Berakas	2300-0600, 0800-1430
970kHz	1kW	Kuala Belait	2300-0500, 0800-1430
1100kHz	10kW	Berakas	2200-0500, 1100-1430
1240kHz	20kW	Tutong	2200-0600, 1100-1430
4865kHz	10kW	Berakas	2200-0600, 1100-1430
7215kHz	10kW	Tutong	2258-0500, 0500-1430

HOME SERVICE

Malay Sce: 2200-0600, 1100-1215, 1230-1430 (Fri/Sat 2200-1430) on 895/1240/4865kHz. **N:** 2300, 0200, 0445, 0930, 1200, 1400.
Iban and Dusun Sce: 1215-1230 on 895/1240/4865kHz.
English Sce: 2258-0030, 0300-0500, 1200-1430 on 970/1100/7215kHz. **N:** 2300(BBC), 2310, 0430, 1315.
Chinese Sce: 0030-0300, 0800-1100 on 970/1100/7215kHz.
Gurkha Sce: 1100-1200 on 970/1100/7215kHz.
ANN: E: "This is Radio Brunei". Malay: "Inilah Radio Talivishen Brunei" – **INT-SIG:** Opens with the sound of Native gong preceded by TS – **V.** by QSL-card (SW only). Re. to Chief Eng. Rec. acc – **PUB:** "Pelita" in Malay, English and Chinese.

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QATAR
ABU DHABI
MUSCAT
KARACHI
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MAKHACH-KALA
BAKU
VAN
KZYL ORDA
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500
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1500
2000
45°
60°
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90°
105°
120°
135°
150°
165°
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15°
0°
30°

BURMA

L.T: GMT+6½h – **Pr.L:** Burmese, English – **EC:** a/c 50, 230V (no).

BURMA BROADCASTING SERVICE (Gov.)

ADDR: Prome Road, Kamayut P.O., Rangoon. **Te:** 31355.
Cable: Infocast. **L.P:** Dir.Gen: U Tin Maung Kyi. Dir. (Broadc): U. Tin Oo. Dir.Eng: U Win Mg. M.I.R.E.

STATIONS (G.C: 96.10E/16.52N)

Call	kHz	kW	Times	Call	kHz	kW	Times
XZK1	955	50	0030-1600	XZK4	7185	50	0030-0230
XZK2	4725	50	1000-1500	XZK5	9725	50	*0030-0740
XZK42	5040	50	0930-1600	*) Sun 0030			

FM: 100,102 MHz 0.25kW.
HOME SCE: Burmese: 0030-0200, 0330-0700(Sun 0030-0700), 0930-1430. **N:** 0130, 0430, 0630, 1230, 1330.
Wrp: 0139,0639,1344.
English: On 955/7185kHz: 0200-0230. On 955/9725kHz: 0700-0740. On 955/5040kHz: 1430-1600. **N:** 0200, 0700,1445.
Indigenous Languages: 1000-1415 on 4725kHz, 1415-1500 University correspondence course on 4725kHz.

ANN: Burmese: "Myanma Athan Hma Athan Hlwint Nay Barthe". E: "This is the Burma Broadcasting Sce" – **INT-SIG:** Burmese Orchestral Music – **V.** by QSL-card if IRC is enclosed. Re. to Dir.Gen. of Inf. and Broadc. Dept – **ALF:** 9/- for three years.

CAMBODIA (Dem. Rep.)

L.T: GMT+7h – **Pr.L:** Cambodian. **E.C:** a/c 50, 120/208 or 220V (no).

DEMOCRATIC CAMBODIAN RADIO (Gov.)

ADDR: 28 Av. Sandech Choun Nath, Phnom-Penh.
STATIONS (G.C: 104.51E/11.34N): 918kHz 120kW – 1360kHz – 4000kHz. 4907kHz 50kW – 6095kHz.
HOME SCE: 2300-2400, 0400-0500, 1100-1500.

ANN: Cambodian: "Thini Phnom-Penh" – **INT-SIG:** Opens with anthem "The Great Victorious Seventeenth April", gong.

CHINA (People's Rep. of)

L.T: Yarkand: GMT+5h. Lhasa: GMT+6h. Chengdu: GMT+7h. Urumqi, Peking: GMT+8h – **Pr.L:** Standard Chinese (Mandarin); Amoy, Cantonese, Fuzhou (Foochow), Hakka, Kazakh, Korean, Mongolian, Tai, Tibetan, Uighur, Mongolian, Korean.

DIRECTORATE GENERAL OF TELECOMMUNICATIONS

Ministry of Posts and Telecommunications, Peking. **Cable:** Gentel.
L.P: Dir.Gen: Lee Lin-chuan.

BROADCASTING ADMINISTRATION (Gov.)

ADDR: Outside of Fu Hsin Men, Peking.

CENTRAL PEOPLE'S BROADCASTING STATION (Domestic Scs):

First Prgr: In Standard Chinese 2000-1735(Tues 2000-0600, 0845-1735).
Rep. freq's (Summer): a) used throughout prgr. Other freq's partly.

kHz	kHz	kHz	kHz	kHz	kHz
540a	870a	1330a	5860	7935	12420
560a	980a	1340	5880	9064a	15230
570a	1020	3450	6225	9080a	15550
640a	1040	4460	6665a	10245	15590
660a	1160	4800	6750	11290a	17605
760a	1300	4905	7095	11330a	
850a	1310	5320	7504a	12120	

N: 2100, 2230, 0030, 0200, 0400, 0800(exc. Tues), 0900, 1000, 1035, 1200, 1400, 1500, 1600, 1700.
Second Prgr: In Standard Chinese: Mon/Tues/Thurs/Sat 2100-1600; Wed/Fri 2100-0600, 0950-1600: Sun 2100-1700.
Rep. freq's (Summer): a) used throughout prgr. Other freq's partly.

kHz	kHz	kHz	kHz	kHz	kHz
600	720a	5075	7770	9670	11505
610a	1120	5168	8005	9745	12200
630a	4250	6345	9020a	10260a	15030
710a	4850	7190	9510	11040	

N: 2300, 2355, 0700(exc. Wed, Fri), 0855(exc. Wed, Fri), 1300, 1355.
Dictation N: W 0000-0130, Sun 1530-1700.
Note: CPBS first and second prgr. are often relayed by regional st's.
ANN: "Zhongyang renmín guángbo diantái". S-on: Vocal rendition of "The East is Red". S/off: Vocal rendition of "The Internationale".
Domestic Service in minority languages: Rep. sched. (Summer):
Kazakh: 0130-0225 on 8565/9920kHz, 1400-1455 on 6645/8565kHz, relayed by Urumqi on 4970/5440kHz.
Korean: 0400-0455 on 6430/8260kHz, 1000-1055, 2130-2225 on 4620/6430kHz, rel. by Yanji 1210kHz and Tonghua 912kHz.
Mongolian: 2230-2325 on 4770/5915kHz (rel. by Hailar on 3900/6080kHz), 0500-0555 on 5915/6645kHz, 1200-1255 on 4770/5915kHz (rel. by Hailar on 3900/6080kHz, Huhhot on 1460/4068/4895kHz, Xilinhot on 7200kHz and Dongsheng on 6045kHz).
Tibetan: 2330-0025 on 8565/9920kHz, 1100-1155 on 6645/8565kHz (rel. by Lhasa on 4035/9490/9653kHz. Also rebroadcast at 0600-0655).
Uighur: 0030-0125 on 8565/9920kHz, 1300-1355 on 6645/8565kHz (rel. by Urumqi on 4110/7050kHz).
Broadc. to Taiwan: In Standard Chinese, Amoy, Hakka 2000-0610(Sun 2000-0655), 0830-1900.
Rep. freq's (Summer): a) used throughout prgr. Other freq's partly.

kHz	kHz	kHz	kHz	kHz	kHz
590a	730a	1030a	1348a	5125	11100a
603a	750a	1090a	1430	6890	15710
678a	910a	1200a	1510	9170a	15880
693a	950a				

This sce is rel. by the PLA Fujian Front St. at 2100-2130, 0400-0415 and 1200-1215(First Prgr).
ANN: "Zhongyang rénmín guangbo diéntai, Tái Wan guangbo".
Broadc. to Quemoy and Matsu: In Standard Chinese and Amoy 2100-2130, 0001-0030, 0130-0200, 0500-0530, 0830-0850(W), 1400-1430, 1500-1530.
Rep. freq. (Summer):

kHz	kHz	kHz	kHz	kHz	kHz
830	890	1070	1335	1519	4975
840	990	1080	1393	2200	5040
880	1050	1149	1475	2340	7165

FUJIAN FRONT STATION (People's Liberation Army)
Broadc. to Offshore Islands and Taiwan. Transmitters located in Fujian (Fukien) prov.
First Prgr: In Standard Chinese 1000-0530.
Rep. freq's (Summer): a) used throughout prgr. Other freq's partly.

kHz	kHz	kHz	kHz	kHz	kHz
670a	3000	3640	4330	5265	6765
930a	3535	4045a	5240	5900a	7850
2490					

Second Prgr: In Amoy and Standard Chinese 0230-1900.
Rep. freq's (Summer): a) used throughout prgr. Other freq's partly.

kHz	kHz	kHz	kHz	kHz	kHz
600a	1540a	2600	3900	5170	7025
820a	1830	3200	4140	5770	7280
950a	2430	3400	4380a	6000	8195
1010a					

Prgr: Amoy 0230-0815, 0930-1900. Other times Standard Chinese.

ANN: "Zhōngguo rénmín jiefangjun, Fújian qianxiàn guangbó diàntái" – **INT-SIG:** First two notes from "Three Great Disciplines and Eight Attentions".

REGIONAL STATIONS

Note 1: For domestic st's, Chinese names of towns and provinces have been transliterated by use of the Pinyin or Chinese Phonetic Alphabet (CPA). CPA has been declared the official romanization system in P.R. of China, and is claimed to reflect the pronunciation of Standard Chinese more closely than the IPA system used hitherto. It seems, however, that the use of CPA has not yet become common practise. Therefore the old IPA orthography is stated in brackets, except where same as CPA.

Note 2: Details listed below regarding provincial stations uncertain due to lack of official information. Also cf. remark in preface of MW freq. list.

kHz	Location
560	Urumqi (Urumchi)
580	Fuzhou 2 (Foochow)
590	Jinan (Tsinan)
590	Lhasa
620	Harbin
620	Kunming
630	Urumqi (Urumchi)
635	Nanning
650	Guangdong (Kwantung/Canton)
670	Jiamusi (Chiamussu)
675	Huhhot (Huhehot)
680	Urumqi (Urumchi)
680	Mudanjiang (Mutankiang)
680	Zhoushan (Chowshan/Tinghai)
685	Luda (Luta)
690	Xian (Sian)
700	Nanjing (Nanking)
713	Fuzhou (Foochow)
730	Lanzhou (Lanchow)
730	Nanchang
740	Changchun
740	Urumqi (Urumchi)
750	Chengdu (Chengtu)
770	Wuhan
780	Shijiazhuang (Shihchiachung)
790	Shenyang
790	Tianjin (Tientsin)
795	Shanghai
798	Guangzhou (Kwangchow/Canton)
800	Xining (Sining)
805	Baotou (Paotow)
810	Hangzhou (Hangchow)
810	Henan (Honan) (P)
810	Tangshan
810	Urumqi (Urumchi)
820	Taiyuan
830	Luda (Luta)
830	Fuzhou (Foochow)
830	Jiangsu (Kiangsu)
830	Shandong (Shantung)
830	Wenzhou (Wenchow)
835	Nanchang
840	Harbin
840	Fuzhou (Foochow)
845	Beijing (Peking)
850	Zhengzhou (Chengchow)
850	(Fushun)
850	Jiangsu (Kiangsu) (P)
850	Chengde (Chengteh)
850	Urumqi (Urumchi)
860	Guangdong (Kwantung) (P)
860	Harbin
860	Fujian (Fukien) (P)
860	Lanzhou (Lanchow)
861	Santou (Swatow)
865	Nanchang
870	Nanjing (Nanking)
870	Jiangsu 2 (Kiangsu)
870	Tianjin (Tientsin) (P)
870	Urumqi (Urumchi)
880	Fuzhou (Foochow)
880	Heilongjiang (Heilunkiang)
880	Urumqi (Urumchi)
890	Fuzhou (Foochow)
890	Kunming
890	Guangzhou (Kwangchow/Canton)
890	Urumqi (Urumchi)
900	Heilongjiang (Heilungkiang)
900	Kunming
910	Jinzhou (Chinchow)
910	Yichun (Ichun)
910	Urumqi (Urumchi)
912	Tonghua (Tunghoa)
920	Xinyang (Hsinyang)
920	Kunming
920	Jinan (Tsinan)
930	Kaifeng
930	Jilin (Kirin)
930	Guiyang (Kweiyang)
930	Beijing (Peking)
940	Hefei (Hofei)
948	Hainan
950	Anshan
950	Urumqi (Urumchi)
960	Yinchuan
960	Yantai (Yentai)
960	Kunming
960	Shenyang
970	Urumqi (Urumchi)
970	Guangzhou (Kwangchow)
975	Harbin
980	Shenyang
990	Luda (Luta)
990	Kunming
990	Shanghai
990	Urumqi (Urumchi)
990	Fuzhou (Foochow)
1000	Zhengzhou (Chengchow)
1010	Yanji (Yenchi)
1030	Beijing (Peking)
1030	Guiyang (Kweiyang)
1030	Yingkou (Yingkow)
1040	Guangzhou (Kwangchow)
1040	Shanghai
1050	Fuzhou (Foochow)
1050	Qinhuangdao (Chinwangtao)
1050	Xinxiang (Hsinhsiang)
1050	(Tongchuan)
1050	Yanbian (Yenbien)
1055	Jiangxi (P) (Kiangsi)
1060	Guangzhou (Kwangchow)
1070	Tianjin (Tientsin) (P)
1070	Fuzhou (Foochow)
1070	Qiqihar (Tsitsihar)
1080	Xilinhot (Silinhot)
1080	Fuzhou (Foochow)
1090	Shenyang
1095	Chongqing (Chungking)
1105	Anhui (Anhwei) (P)
1110	Xiamen (Amoy) (Hsiamen)
1110	Lanzhou (Lanchow)
1110	Shuangyashan
1110	Jinan (Tsinan)
1110	Kunming
1110	Wuhan
1114	Zhengzhou (Chengchow)
1120	Harbin
1125	Nanchang
1130	Henan (Honan)
1130	Yinchuan
1130	Siping (Ssuping)
1140	Jinan (Tsinan)
1149	Fuzhou (Foochow)
1150	Changsha
1178	Hefei (Hofei)
1180	Guizhou (Kweichow) (P)
1180	Wuhan
1185	Zhejiang (Chekiang) (P)
1190	Kunming
1190	Liaoning (P)
1190	Hainan
1210	Changzhou (Changchow)
1210	Yencheng
1210	Yanbian (Yenbien)
1213	Zhejiang (Chekiang) (P)
1220	Chengdu (Chengtu)
1230	Changsha
1250	Xining (Sining)
1260	Shenyang
1260	Fujian (Fukien) (P)
1260	Qingdao (Tsingtao)
1265	Zhejiang (Chekiang) (P)
1270	Hefei (Hofei)
1270	(Tengkou)
1270	Ganzhou (Kanchow)
1275	Xiamen (Hsiamen)
1280	Shijiazhuang (Shichiachuan)
1280	Kunming
1290	Liaoyuan
1290	Tongchuan (Tungchuan)
1290	Yinchuan
1295	Hefei (Hofei)
1300	Henan (Honan) (P)
1300	Shanghai (Educational)
1300	Benxi (Penki)
1310	Jilin (Kirin) (P)
1310	Nanchang
1310	Baoji (Paoki)
1310	Chongqing (Chungking)
1310	Jinan (Tsinan)
1320	Henan (Honan) (P)
1320	Nanning
1320	Baicheng (Paicheng)
1330	Changchun
1330	Fuzhou (Foochow)
1330	Gannan (Kannan)
1330	Liuzhou (Liuchow)
1330	Xilinhot (Silinhot)
1330	Suzhou (Soochow)
1335	Fuzhou (Foochow)
1335	Shandong (Shantung) (P)
1340	Guangzhou (2) (Kwangchow)
1340	Fuzhou (Foochow) (P)
1350	Tongliao (Tungliao)
1350	Zhejiang (2) (Chekiang)
1350	(Hangchung)
1350	Hangzhou (Hangchow)
1350	Hengyang (Hongyang)
1350	Jiangsu (Kiangsu) (P)
1350	Shandong (Shantung)
1350	Xian (Sian)
1352	(Lienyunchiang)
1360	Fuzhou (Foochow)
1360	Kunming
1360	Nanyang
1360	(Tungsheng)
1370	Zhejiang (Chekiang) (P)
1370	Qinhuangdao (Chinwangtao)
1370	Handan (Hantan)
1370	Xian (Sian)
1370	Datong (Tatung)
1370	Zunyi (Tsunyi)
1370	Wenzhou (Wenchow)
1370	Yangzhou (Yangchow)
1378	Wuhan
1380	Kunming
1380	Qingdao (Tsingtao)
1380	Ulan Hot
1385	Fuzhou (1) (Foochow)
1385	Nanning
1385	Baotou (Paotow)
1390	Jianxi (Kiangsi) (P)
1390	Shaoyang
1393	Zhengzhou (Chenchow)

kHz	Location
1400	Andong (Antung)
1400	Zhuzhou (Chuchow)
1400	Lanzhou (Lanchow)
1400	Wuxi (Wushi)
1405	Heilongjiang (Heilunkiang) (P)
1410	Jiangsu (Kiangsu) (P)
1410	Zhengzhou (Chengchow)
1410	Jinzhou (Chinchow)
1410	(Haokang)
1410	Jiangxi (Kiangsi) (P)
1410	Wuzhou (Wuchou)
1420	Shanghai (Educational)
1430	Jinan (Tsinan)
1430	Fuzhou (Foochow)
1435	Hailar
1437	Jilin (Kirin) (P)
1440	Zhanjiang (Tsanghou)
1440	Guilin (Kuelin)
1450	Beijing (Peking)
1450	Xuzhou (Hsuchow)
1450	Nanning
1450	Shashi (Shashih)
1450	Xining (Sining)
1450	Yantai (Yentai)
1452	Jinan (Tsinan)
1460	Huhhot (Huhehot)
1465	Jingdezhen (Chingtechen)
1470	Kunming
1470	Ningbo (Ningpo)
1470	Jinan (Tsinan)
1475	Fuzhou (Foochow)
1480	Huangshi (Hwangsih)
1480	Beijing (Educational)
1483	Hefei (Hofei)
1485	Fuzhou (Foochow)
1485	Nanchang
1490	Lanzhou (Lanchow)
1490	Jilin (Kirin)
1490	Changzhi (Changchih)
1490	Zhangye (Changyeh)
1490	Xian (Sian)
1490	(Tsukuang)
1490	Duyun (Tuyun)
1490	Wuhu
1495	Fuzhou (1) (Foochow)
1500	(Hsinhsiang)
1500	Jining (Chining)
1510	Hailar
1510	Hefei (Hofei) (P)
1520	Fuzhou (Foochow)
1520	Changzhou (Changchow)
1520	(Fushun)
1530	Jixi (Chihsi)
1530	Huaiyin (Hwaiyin)
1530	Taiyuan
1530	Pingliang
1560	Chaowuta
1560	Jiuchang (Chiuchiang)
1560	Jiaozuo (Chiaotso)
1568	Changsha
1570	Huainan
1570	Changde (Changte)
1575	Jiangxi (Kiangsi) (P)
1575	Wenzhou (Wenchow)
1590	Fuxin shi (Fouhsin)
1590	Pingtingshan
1590	Wuhu
1590	Yanguan (Yangchuan)
1600	Hongze Xian (Hongtsehsian)
1600	Nanchang

FM:
67.8MHz Beijing (Peking)

Shortwave

kHz	Location
2200	Fujian 2 (Fukien)
2340	Fujian 1 (Fukien)
2350	Shandong (Shantung)
2415	Zhejiang/Wenzhou (Chekiang/Wenchow)
2475	Zhejiang 1 (Chekiang)
2960	Jilin (Kirin)
3245	Sichuan (Szechwan)
3260	Guizhou (Kweichow)
3310	Jilin (Kirin)
3900	Heilongjiang/Hailar (Heilongkiang) (g)
3930	Liaoning/Chifeng
3940	Hubei (Hupei)
3950	Qinghai (Tsinghai)
3970	Inner Mongolia/Nei Menggu
4035	Tibet/Xizang (h)
4068	Huhhot (Huhehot) (g)
4110	Urumqi (Urumchi) (d)
4220	Xinjiang (Sinkiang)
4400	Xinjiang (Sinkiang)
4500	Xinjiang (Sinkiang) (e)
4525	Xilinhot (Silinhot)
4750	Heilongjiang/Hailar (Heilongkiang) (e)
4759	Yunnan I
4785	Yunnan I
4832	Liaoning
4840	Heilongjiang (Heilongkiang)
4865	Gansu (Kansu)
4895	Huhhot (Huhehot) (g)
4915	Guangxi I (Kwangsi)
4925	Heilongjiang (Heilongkiang)
4952	Xilinhot (Silinhot) (e)
4970	Urumqi (Urumchi) (i)
4975	Fujian 1 (Fukien)
4980	Hubei (Hupei)
4990	Hunan
5010	Guangxi I (Kwangsi)
5020	Jiangxi (Kiangsi)
5040	Fujian 1 (Fukien)
5440	Urumqi (Urumchi) (i)
5800	Xinjiang I (Sinkiang)
5925	Xinjiang (Sinkiang)
5935	Tibet/Xizang (e)
5950	Heilongjiang (Heilongkiang)
5970	Gansu (Kansu)
6000	Zhejiang (Chekiang)
6045	Dongsheng (Tungsheng) (g)
6070	Jilin (Kirin)
6080	Heilongjiang (Heilongkiang) (g)
6155	Gansu (Kansu)
6176	Shaanxi (Shensi)
6260	Qinghai (Tsinghai) (e)
6280	Xinjiang (Sinkiang)
6620	Zhejiang (Chekiang)
6840	Inner Mongolia/Nei Menggu (e)
6936v	Yunnan 2
7050	Urumqi (Urumchi) (d)
7165	Fujian I (Fukien)
7185	Gansu (Kansu)
7200	Xilinhot (Silinhot) (g)
7385	Xinjiang/Qinghai (Sinkiang/Tsinghai)
8775v	Beihai (Pei Hai)
9490	Tibet/Xizang (h)
9495	Qinghai (Tsinghai)
9600v	Xinjiang (Sinkiang) (e)
9653	Tibet/Xizang (h)
9755	Shanghai

Region/City	Times	kHz
Anhui		
Hefei	2050-1500	940,1295
Zhejiang		
Hangzhou		
1st prgr.	2110-0500	810,1370,2475
	0850-1510	810,1370,2475,6000,r6620
2nd prgr.	2110-1500	1350
Wenzhou	2050-0545	1575,2415
	0755-1510	
Fujian		
Fuzhou		
1st prgr.	2050-0540	880,1385,1485,1520,2340, 7165
	0740-1600	880,1385,1485,1520,2340, 5040,7165
2nd prgr.	2120-1500	580,2200

Region/City	Times	kHz
Heilongjiang		
Harbin		
Prov. prgr.	2000-0615	620,840,860,4840,4925,5950
	0850-1430	620,840,860,880,4925,5950
Harbin local	2100-1455	975
Hailar		
(Hulun Boi Meng)	2120-2400 / 0950-1400e	1510,4750
	2120-0605 / 0950-1400g	3900,6080
Haikow	2105-0100	950,1190
Island	0300-0610	950,1190
	0900-1500	950,1190
Henan		
Zhengzhou	-1530	1000
Hebei		
Shijiazhuang	2130-1503	780,1280
Hunan		
Changsha	2105-1620	1150,1230,4990

Hubei	Times	kHz
Wuhan	2100-0100 0300-0600 0850-1605	770,3940,r4980
Inner Mongolia (Nei Menggu) (Autonomous Region)		
Huhhot	2105-0520	675,3970,6840
	0850-1520	(Sat, Sun 1540)e
	2130-0050	1460,4068,4895
	0230-0555	1460,4068,6974
	0930-1600g	1460,4068,4895,6045
Xilinhot (Xilin Gol Meng)		
	2100-0200 0950-1500e	1080,4952
	2150-0540 0950-1400g	7200
	r1230-1430	4525
Gansu		
Lanzhou	2120-0600 0950-1600	860,4865,5970,6155, 7185,7324
Jiangsu		
Nanjing	2050-1445	700
Jilin		
Changchun	2035-0540	740,2960,3310,6070
	0730-1520	740,2960,3310
Jilin	2050-1435	930
Yanji (Yanbian Korean Autonomous Prefecture)		
	2000-1430j	1210
	2005-1400e	1050
Guangxi (Autonomous Region)		
Nanning		
1st prgr.	2130-1520	4915
2nd prgr.	2155-1435	5010
Beihai	-1235	8775
Guangdong		
Guangzhou (Canton)		
1st prgr. (Cantonese)	2045-2400 0250-1605	650,860
2nd prgr. (Cantonese)	2100-0630 0845-1605	800,1060
City Sce:	2030-1605	970
Haikou	2105-0100	950,1190
(Hainan)	0300-0610	950,1190
	0900-1500	950,1190
Guizhou		
Guiyang	2115-2400 0150-0600 0950-1605	930,1030,3260,7275
Liaoning		
Shenyang	2040-0100 0250-0535 0720-1515	960,1090,1260,4832
Ningxia (Autonomous Region)		
Yinchuan	2120-1620	960,1130,1290
Beijing (Municipality)		
1st prgr.	2250-1600	930
2nd prgr.	0055-1600	1030
Educational prgrs.	2330-1530	1450 Japanese lessons (6 times daily)
	2215-1410	1480 (English lessons)
Shanghai (Municipality)		
1st prgr.	2030-1500	990
2nd prgr.	2100-1600	795
Educational prgr.	2230-1330	1300 (English lessons)
	2200-1400	1420(French, Japanese lessons)
	r1100-1300	9755
Shaanxi		
Yanquan	2215-1405	1590
Shandong		
Jinan	2105-1513	590,920,1430,2350
Yantai	2055-1513	960
Qingdao	2120-1430	1380
Shaanxi		
Xian	2100-0820 1000-1605	960,6176
Xinjiang (Uighur Autonomous Region)		
Urumqi	2230- 1000-1620d	560,4110,5920,5925,7050
	2230-0710 1000-1620e	740,4500,6280,7385,9600
Xinjiang	**Times**	**kHz**
Urumqi	1000-1535g	5057,5440
	-1535i	4400,5800
Sichuan		
Chengdu	2120-1505	3245
Tibet (Xizang Autonomous Region)		
Lhasa	2230-0630 1000-1550e	590,5935
	2230- 1000-1545h	4035,9490,9652[a]
Tianjin (Municipality)		
	2130-1500	870
Qinghai		
Xining	2200-0100	800,3950,6260
	0400-0600	9495
	0940-1520e 2200-1510f	250,6500
Yunnan		
Kunming		
1st prgr.	2150-0600 0920-1620	620,890,900,920,960,990, 1110,1280,1440,4760
2nd prgr.	2155-0100 1030-1605	6937

Note: e) Chinese; d) Uighur; f) Amdo; g) Mongolian; h) Tibetan; i) Kazakh; j) Korean – English lesson prgrs are broadcast by Anhui (Anhwei), Fujian (Fukien), Xiamen (Hsiamen Amoy), Haerbin (Harbin), Hunan (Hunan), Hubei (Hupei), Wuhan (Wuhan), Jiangsu (Kiangsu), Guangzhou (Kwangchow Canton), Beijing (Peking), Shanghai (Shanghai), Shaanxi (Shensi).

RADIO PEKING (EXTERNAL SERVICES)

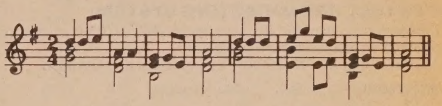
Target Areas: I=No. America (East); II=No. America (West); III=Australia/New Zealand; IV=So. Ea. Asia; V=So. Asia; VI=Ea. & So. Africa; VII=No. & We. Africa; VIII=Europe; IX=Far East; X=Somalia; XI=Brazil; XII=Latin America; XIII=Africa/Europe; XIV=Middle East/No. Africa; XV=We. Asia. XVI=Iran/Afghanistan; XVII=Philippines.

Freq. mentioned below may vary by the season. T=Tirana relay.

Arabic	Area	kHz
1630-1725	XIV	3390,4130,7480,9440,11515
1830-1925	XIV	3390,4130,7480,9440,11515
English		
0001-0055	I	5030,6810,11675,11945,15060
0100-0155	I	**5420,8240,8450,9290,9940,11375,** 11420,11455,11945,12015, 12055,15060. T: 7120,9780
0200-0255	I	5420,8240,8450,9940,10865,11455, 12015,12055,15060
0300-0355	II	**8240,9290,9460,10865,11375,11420,** 11630,11650,12055,15060,17530. T: 7120,9780
0400-0455	II	8240,9460,10865,11630,11650,12055, 15060,17530
0830-0925	III	7035,9460,9530,11445,12450,15060, 15480
0930-1025	III	7035,9460,9530,11445,12450,15060, 15480
1200-1255	I	4130,5250,11865
1200-1255	IV	6290,8660,11650,12450,15270
1300-1355	IV	6290,6590,7660,8660,11650,15270
1400-1455	V	3985,5030,7315,9860,11650
1500-1555	V	4020,5030,7315,9860,11650
1600-1655	VI	3270,4020,6550,7620,8345,9860
1700-1755	VI	3270,4020,6550,7620,8345,9860
1800-1855	V	1210,5090,6590
1930-2025	VII	5420,6550,7620,9470,11650
2030-2125	VII	5420,6550,7620,9470,11650
2030-2125	VIII	5090,6590,6860,7590,9030,9880
2130-2225	VIII	5090,6590,6860,9030,9840
Esperanto *) Sat/Sun **) Fri/Sat		
1100-1125*	IX	5250,6995,7350,9860
1230-1255*	IV	4200,5420,9390,11980,15080
2000-2025**	VIII	5220,6410,6860,9380
French		
1130-1155	IV	6410,8490,9440,11660,11695
1300-1355	IV	1300,7590,8450,11455,11695
1830-1925	XIII	3500,4200,5250,6520,6560,7060, 9940,11695,12015

French	Area	kHz
1930-2025	XIII	3500,4200,5250,6520,6560,7060, 9940,11695,12015
2030-2125	XIII	3500,4200,5250,6520,6560,7060, 9940,11695,12015
2130-2225	XIII	3500,4200,5250,6520,6560,7060, 9940,11695,12015
German		
1800-1855	VIII	5295,6825,7010,7780,9455
2000-2055	VIII	5295,6825,7010,7780,9455
Indonesian		
2330-2355	IV	4200,5420,8490,9470,11600,11660, 12110,15095
0830-0925	IV	5420,8240,11685,15080,15095,17650, 17735,17795
1030-1125	IV	8660,11600,12450,15095
1300-1325	IV	4200,5420,11675,15095
1400-1425	IV	3500,4200,11675
Italian		
1100-1125	VIII	11375,11420,11675. T: 1457
1130-1155	VIII	11375,11420,11675. T: 1457
1930-1955	X	3270,4020,6540,6975,7095,9880, 11515
2030-2055	VIII	5220,6410,6645,9380,11375
2100-2125	VIII	5220,6410,6645,7035,9380,11375
Japanese		
2130-2155	IX	720,920,1040,3960,4960,7480, 9965
0930-1525	IX	720,920,1040,3960,4960,6955, 7480,9920
Portuguese		
1900-1955	XIII	9860,11660
2000-2055	XIII	3700,4620,6345,6935,11675
2200-2255	XI	4020,5030,5295,6825,7780,9820, 9860,11445,11600,11650. T: 7310
0001-0055	XI	6410,8490,9860,9965,11445,11660, 11695,11990
Spanish *) Mon-Fri		
0001-0055	XII	5250,6995,7620,8345,9030,9340, 9480,9820,11375,11420,11630,12055, 15095. T: 7120,9500
0100-0155	XII	6995,8345,8425,11630,11650,11980, 15045,15080,15385,17680
0200-0255	XII	6995,8345,8425,9290,11375,11420, 11630,11650,11980,15045,15080,15385, 17680. T: 7120,9500
0300-0355	XII	11945,12450,15045,15480
1100-1125	XII	4200,5420,9390,11685
1130-1155	XII	4200,5420,9390,11685
1230-1255*	XII	4200,5420,9390,11980,15080
2030-2125	VIII	3390,4130,9390,11660
2300-2355	XII	4130,5250,7620,8345,9030,9340, 9480,9500,9820,11375,11420,11630, 11945,12055,15080. T: 7120,9500
Tagalog		
0930-0955	XVII	5420,8240,11660,12055,15080, 17815
1200-1225	XVII	1340,4200,5420,9390,11660,12055
1430-1455	XVII	1340,3500,4200,6825,6995,9390

Additionally, daily broadcasts are scheduled in the following languages:
Standard Chinese to all target areas; **Cantonese** to the Americas, Africa, Australia & New Zealand and So. Ea. Asia; **Amoy, Burmese, Cambodian, Chaochou, Hakka, Laotian, Malay, Sinhalese, Thai** and **Vietnamese** to So. Ea. Asia; **Bengali, Hindi, Nepalese, Pushtu, Tamil** and **Urdu** to So. Asia; **Korean** and **Mongolian** to Ea. Asia; **Persian** to Iran & Afghanistan; **Hakka, Hausa** and **Swahili** to Africa: **Albanian, Bulgarian, Czech, Polish, Romanian, Serbo-Croat** and **Turkish** to Europe and Africa; **Quechua** to Bolivia, Ecuador and Peru. Broadcasts in **Russian** are scheduled daily 0900-0455.
Programmes, of 15-25 min's duration are repeated numerous times throughout the day over a large number of freq's.
ANN: English: "This is Radio Peking". Albanian: "Ju Flet Pekinje". Amoy: "Pyungyong Yenmin Kwangpo Tientai". Arabic: "Huna Peking". Bengali: "Swadhin Peking". Burmese: "Peking Ah-tan Luin-yon-ka Ah-tan Luin-na-ba-tha". Cantonese: "Chungyung Yenmun Kwangpo Tien-toi". Chinese: "Zhóngyáng renmín guangbó diàntai". Farsi: "Injá Peykan". F: "Ici Pekin". G: "Hier ist R. Peking". Hakka: "Chungyao Yenmin Kwangpo Tientai". Hausa: "Bunilah R. Peking". Indonesian: "Ini-lah R. Peking". Italian: "I R. Pekino". Japanese: "Hojiwa Peking hoso desu". Cambodian: "Thini Sattani Vithayu phsay samleng Pekin". Korean: "Yo ki neun Peking Pangsong im ni da". Laotian: "Thini, Stani Withayu Kachai Siang Padking". Malay: "Inilah R. Peking balam bahasa Malay". Polish: "Mówi Peking". P: "Aquí R. Pequim". Romanian: "Aici e R. Peking". R: "Govorit Peking". Serbo-Croat: "Govorei Peking". Sp: "Aquí R. Peking". Swahili: "Hii ni R. Peking". Tamil: "Peking Vanoli Nalayam". Thai: "Thini Sathani Vithayu Kachai Sieng Paking". Turkish: "Burasi Peking". Urdu: "Ye R. Peking Ho". Vietnamese: "Phat Thanh Badking".
INT-SIG: First 19 notes from "The East Is Red", followed by a complete orchestral rendition of same. S/off: Orchestral rendition of the "Internationale". **V.** by QSL card and letter. **Pub:** Free literature, schedules and calendars on request.



CHINA PRESS BROADCASTING STATION

ADDR: Xinhua She/New China News Agency, Peking.
L.P: Pres: Chu Mu-chih.
STATIONS (all 3 of 20kW). **D.PRGRS** (frequencies vary acc. to season): 1100-1400v on 5525, 7526, 12074, 13700, 13845, 14820, 16105, 16270, 17505kHz; 1500-1730v on 5525, 7526, 11120, 13700, 13845, 14820, 16105, 17505kHz. Prgrs consist of dictation-speed news in Chinese, plus Chinese musical interludes.
ANN: Chinese: "Zhòngguò rénmin guangbò diàntái". S/on: vocal rendition of "The East is Red". S/off: vocal rendition of the "Internationale". **V.** rarely to newsmen. (The station has been reported off the air).

BEIHAI (PEI HAI) FISHERY STATION

Beihai (Pai Hai), Guangxi (Kwangsi) Autonomous Region.
STATION: 1470kHz. **D.PRGRS:** 2340-0100, 0410-0605, 1050-1335.

TAIWAN

L.T: GMT+8h (Su: GMT+9h) – **Pr.L:** Chinese – **EC:** a/c 60, 110/200V (yes).

BROADCASTING CORPORATION OF CHINA

(Priv. enterprise under Gov. contract).
ADDR: 53 Jen Ai Road, Sec. 3, Taipei. **Te:** 770151. **Cable:** "Broadcast".
L.P: Pres: Lee Shih-feng. Dir.Eng.Dep: H.Y. Ong. Chief, International Affairs: Shulun Wei.

STATIONS: Mediumwaves (Domestic): Call: BE . . . N=Network; A=Agricultural Prgr.

Call	kHz	kW	N	Call	kHz	kW	N
D34	660	20	I	D86	1160	1	II
D58	720	10	I	D88	1170	1	II
D92	780	1	II	D32	1190	1	II
D28	820	1	I	D46	1190	1	II
D25	860	1	I	D79	1220	1	III
D27	860	1	I	D98	1220	0.1	I
B38	910	5	T	D61	1250	1	II
D55	960	20	II	D47	1280	1	I
D53	1020	3.5	II	D63	1350	1	I
D71	1020	0.1	I	D23	1360	10	III/A
D26	1040	1	II	D41	1380	0.1	I
D43	1060	1	II	D87	1390	1	I
D57	1070	10	N	D74	1390	1	I
D8	1070	1	I	D65	1400	1	I
D56	1090	0.1	III	D54	1410	1	I
D72	1120	1	I	D80	1410	1	III/A
D68	1150	1	II	D67	1410	1	I
D89	1160	5	II	D48	1450	3.5	II

Call	kHz	kW	N	Call	kHz	kW	N
D94	1450	0.1	I	D81	1470	1	III/A
D85	1460	1	III/A	D83	1500	1	I
D82	1460	1	III	D78	1540	1	III
D29	1470	1	I	D77	1600	1	II

+ a number of low power satellites not mentioned.
For locations, cf. MW frequency list.
FM: 102.1MHz: D4 Taiwan (Taichung), D6 Hualien, D52 Taitung. 103.3MHz: D3 Taipei, D5 Kaohsiung (Agri), D51 Yuli.
Networks:
I Prgr: 24h (on 660kHz; each other st. has different operating times) – **II Prgr:** 2050-1635 – **III Prgr** (Educational): 2200-1500. **FM:** 2200-1705 (own stereo prgr. exc. D5: Agri) **News Prgr** (N): 2155-1605(Sun 2255-1535). **Traffic Prgr** (T): 24h. **Agricultural Prgr:** 2055-2200, 0700-1000.
ANN: "Chung Kuo Kuang Po Kong Ssu, (location) Kuang Po Tiew Tai" – **ALF:** NT$ 40/- (once for all).

CENTRAL BROADCASTING SYSTEM

(Independent broadc. division under BCC. CBS is in charge of the broadcasts to the Mainland).
ADDR: 7 Lin Sen North Rd, Taipei. **Cable:** Centradio.

STATIONS: Call: BE . . . ; N=Network.

Call	kHz	kW	N	Call	kHz	kW	N
D76	600	500	II	—	6087	—	—
D2	750	125	I	D35	7150	100	N
—	840	—	—	D21	7250	100	II/III
D96	900	100	I/III	D33	9630		
D62	1000	500	II	D22	9690	10	III
D97	1100	100	I	D44	11905	100	N/III
D50	1200	100	I/III	D37	11970		
D31	3230	10		D36	15280		
D20	3335	10	III	D38	15320		
D9	6040	7.5	III				

All prgrs. in Chinese exc. where indicated.
1st Prgr: 2045-0130 on 750/900/1100/7150/9630/11905/11970/15280kHz, 0130-0345 on 900kHz, 0345-0625 on 750/ 900/ 1100/ 1200/ 3335/ 6040/ 7150/ 7250/ 9630/ 9690/ 11905/11970/15280kHz, 0625-0945 on 900kHz, 0945-1500 on 750/900/1100/7150/9630/11905/11970/15280kHz, 1500-1925 on 750/900/1100/1200/3335/6040/7150/7250/9630/9690/11905/11970/15280/15320kHz, 1925-2045 on 900kHz – also reported on 840kHz.
2nd Prgr: 1045-1835 on 600/7250kHz.
News Prgr: 24h on 6087/7150/11905kHz.
Dialect Prgr: Hakka 0955-1150 on 1200/6040/9690kHz, Amoy 2255-0100 on 1200/3335kHz Cantonese 1155-1450 on 1200/6040/9690kHz, Shanghai 2055-2250 on 3335/ 7250kHz, 0500-0620 on 7250kHz.
Education Prgr: 0130-0200 on 900kHz, 1500-1530 on 1200kHz.
Minority Prgr. on 11905kHz: Mongolian 1100-1230, Tibetan 1240-1410, Uighur 1420-1550.
ANN: "Chung Yang Kuang Po Tien Tai".

"VOICE OF FREE CHINA" (INTERNATIONAL SERVICE)

ADDR: as for Home Service.

STATIONS (Taipei: G.C: 121.24E/25.09N)

kHz	kW	kHz	kW	kHz	kW
890	10	9685	25	15270	—
5980	3.5	11825	25	15345	—
7130	50	11860	50	15370	100
9510	—	11915	—	15425	—
9575	10	11925	—	17720	50
9600	—	15125	100	17800	—
9675	—	15225	—	17890	50

Arabic	kHz
1800-1900	9510,11860, 15225,17720

Burmese	kHz
0730-0830	11825,15345, 17890

Cambodian	kHz
0830-0930	11825,15345, 17890

English	kHz
0200-0350	9685,11825, 15425,17890
1900-2000	9510,9685,11825, 11860,15225, 17720,17890

French	kHz
0410-0500	9685,11825, 15425,17890
2000-2100	9510,11860, 15225,17720

Indonesian	kHz
0000-0100, 1100-1200	7130,9575,17800

Japanese	kHz
1200-1300, 1400-1500	9685,11825, 15425,17890
2130-2230	7130,9575,15270

Korean	kHz
1100-1200	9685,11825, 15425,17890
2230-2330	7130,9575,15270

Thai	kHz
0600-0700	11860,15125, 15225,17720
1530-1630	7130,9575,17800

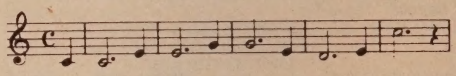
Vietnamese	kHz
0500-0600	11860,15125, 15225,17720
1630-1730	7130,9575,17800

Amoy	kHz
0200-0300	5980,7130,9675, 17800
1100-1200	11915,11860, 15225,17720
1300-1400	5980,7130,9575, 17800
1500-1600	9685,11825, 15425,17890

Cantonese	kHz
0100-0200	9685,11825, 15425,17890
0400-0500	9600,11915, 11860,15125, 15225,17720
1400-1500	9510,11860, 15225,17720
2130-2230	11825,15345, 17890
2300-2400	9600,11860, 11925,15125, 15225,17720

Mandarin	kHz
0000-0100	9685,11825, 15425,17890
0300-0400	9600,11860, 11915,15125, 15225,17720
1300-1400	9685,11825, 11860,11915, 15225,15425, 17720,17890
1600-1700	9685,11825, 15425,17890
1800-1900	9685,11825, 17890
2200-2300	11825,11860, 15125,15225, 15345,17720, 17890

ANN: E: "This is the Voice of Free China". Chinese: "Tzu Yu Chung Kuo Chih Sheng".
INT-SIG:



V. by QSL-card. Rec. acc – **PUB:** Prgr. schedule free.

PUBLIC, MILITARY and OTHER STATIONS

Mediumwaves

	Call	kHz	kW		Call	kHz	kW
1)	H68	590	1	7)	C42	930	
1)	H2	590	1	1)	H85	930	
1)	H48	590	5	1)		930	
1)	H24	590	1	1)		950	
1)	H30	590	1	4)	C70	980	3.5
1)	H38	590	1	1)		1010	
1)		640		1)	H33	1030	1
1)	H49	640	1	6)	C49	1050	
2)	P24	680	10	1)		1090	
3)	C22	680	3	1)	H80	1090	1
3)	C32	690	3	1)	H55	1090	1
3)	C25	700	10	1)	H67	1090	1
4)	C72	710	10	1)	H50	1090	
5)	E43	730	0.5	1)	H34	1090	
1)	H95	750	1	1)	H5	1090	1
1)	H31	750	1	1)	H69	1090	1
1)		750		3)	C31	1090	
1)		750		3)	C30	1110	5
1)		750		3)	C23	1110	1.5
1)		750		6)	C47	1110	
1)	H54	820	1	2)	P26	1120	1
1)		820		2)	P25	1120	5
2)	P28	820		8)	C75	1130	5
3)	C38	840	10	9)	G22	1150	3
6)		850		1)		1210	
1)	H47	880	1	3)	C29	1250	5
1)	H98	880	1	6)	C22	1250	
1)	H4	880		2)	P22	1260	10
1)		880		10)	C40	1280	1
1)	H79	910	1	3)	C27	1290	5
1)	H56	910	1	1)		1310	
1)		910		1)		1310	
1)	H3	910	1	3)	C36	1330	1
1)	H35	910	1	3)	C33	1350	1

	Call	kHz	kW
3)		1350	
4)	C73	1430	10
6)		1430	
4)	C60	1440	10
1)		1470	
6)		1470	
4)	C74	1480	10
11)	E32	1490	3.5
3)		1490	
1)	H51	1510	1
1)		1510	
1)	H26	1510	1
1)	H32	1510	1
1)	H66	1510	5
1)	H36	1510	1
1)	H70	1510	1
2)	P27	1510	5
1)		1540	1

Shortwaves

8)	C87	2370	
2)	P23	5960	1
4)	C61	6105	7.5
9)	G23	7180	0.5
4)	C71	7260	3.5
4)	C62	9745	3.5

For locations, cf. MW frequency list.
FM: 1) 101.7MHz – 2) 102.9/104.9MHz.

1) Fu Hsing Broadc. Corp, 48-3, Houkang-li, Shihlin, Taipei City 2050-0715(Sun 0815), 0920-2020; Keelung: 166, Minyechuang, Chungshan-yi Rd, Keelung City 2050-0720, 0920-1920; Taoyuan: 126, Yimin Rd, Chung-li City 2050-0720, 0920-1920; Hsinchu: 526-3, Kuangfu Rd, Hsinchu City; Miaoli: 748, Weikung Rd, Chiacheng-li, Miaoli Town; Taichung: 209, Peitun Rd, Taichung City; Chiayi: 115, Mituo Rd, Chiayi City; Tainan: 27, Hsinyi Rd, Hsinhua Town, Tainan County; Kaohsiung: 154, Tapi Rd, Kaohsiung 2050-0720, 0920-1920; Pingtung: 16-9, Haifeng-renyi-li, Pingtung City; Taitung: 11, Shengli Str, Poai Rd, Taitung Town; Hualien: 111, Peipin Rd, Hualien City; Ilan: 50, Nuchung Rd, Ilan City 2050-0720(Sun 0820), 0920-1920; Renai: 19, Renho Str, Tatung vil, Renai County Nantou Pref. 2200-0600, 0800-1500.
2) Ching Cha Broadc. St(Police Broadc. Netw): Taipei: 1, Tientsin Rd, Taipei City 24h; Kaohsiung: 246, Chungcheng-si Rd, Kaohsiung City. 24h. **V.** by QSL-card (Taipei).
3) Chun Chung Broadc. St(Military Broadc. St): Taipei: 3, Sec. 1, Hsinyi Rd, Taipei City. 2040-0605, 0830-1800; Taichung: 178, Chenhsing Rd, Taichung City W 2040-0100, 0200-0605, 0830-1800, Sun 2040-0605, 0830-1800; Yunlin: Peishitzu, Tounan Town, Yunlin County; Tainan: Tainan Victory Camp 2040-0605, 0830-1800; Tsaoying: 40, Mingte-hsing vil, Tsaoying W 2040-0100, 0200-0605, 0830-1800, Sun 2040-0605, 0830-1800; Kaohsiung: Fengsham, Camp W 2040-0100, 0200-0605, 0800-1800, Sun 2040-0605, 0830-1800; Hualien: Chungcheng Rd, Hualien City W 2040-0100, 0200-0605, 0830-1800, Sun 2040-0605, 0830-1800; Ilan: Chinliuchie, Ilan Pref. W 2040-0600, 0830-1400, Sun 2040-1400; Makong: Minsheng Rd, Makong, Penghu 2040-0605, 0830-1800.
4) Kung Chun Broadc. St(Air Force Broadc. St): Taipei: 44, Sec. 2, Renai Rd, Taipei City 2150-1510 (SW 2150-0200, 1055-1700). Taichung: Changerping Rd, Peitun, Taichung City 2120-0030, 0355-0700, 0955-1705; Chingshui: Kanghsiang-li, Chingshui Town, Taichung Pref. 2055-0225, 1055-1705; Tainan: 10, Liuchiating, Tainan City 2120-0030, 0355-0700, 0955-1705.
5) Shih Hsin Broadc. St(World News Broadc. St): Shichie Hsinwen, Mushah, Taipei City 2055-0600, 0900-1400.
6) Kuang Hua Chih Sheng, Yishih vil, Linkou Town, Taipei Pref. 24h. **V.** by letter in Chinese.
7) Chun Chung Kuo Kuang Broadc. St(Military Broadc. St): Chieshoukuan, Taipei City 2040-2330, 0100-0400, 0600-0900.
8) Min Fang Broadc. St(Civil Defense Broadc. St): 62-4, Sec. 3, Chungshan-pei Rd, Taipei City 24h.
9) Yu Shih Broadc. St(China Youth Broadc. St): 131, Tunhua-pei Rd, Taipei City 2150-0600, 0825-1700.
10) Fu Hsing Kang Broadc. St(Armed Forces Broadc. St): Fuhsing-kang, Peitou, Taipei City 2200-0100, 1055-1400.
11) Chiao Yu Broadc. St(Educational Broadc. St): 41, Nanhai Rd, Taipei City 2200-0100, 0400-0600, 1000-1600.

A change of frequency for your local station –

an increase in air-time. It might be useful for us to know.

COMMERCIAL BROADCASTERS UNION OF CHINA

ADDR: 7th Floor, 66-1, Sec. 1, Chungching-nan Rd, Taipei City.
STATIONS: Call: BE . . .
For station location, cf. MW frequency list.

	Call	kHz	kW
1)	V58	570	1
2)		630	
1)	V59	650	1
1)		650	
3)		670	
4)		730	
5)		760	
6)	V88	770	5
7)	V79	790	1
2)	V94	790	1
8)	V54	810	1
1)	V34	820	1
5)	V56	830	1
9)	V24	860	1
10)	V52	870	1
11)	V67	880	
1)	V72	920	2
1)		920	
3)	V85	950	1
2)	V84	970	
11)	V68	980	1
1)	V60	1010	1
12)	V92	1010	1
13)	V51	1030	1
14)		1050	
15)	V74	1050	5
1)	V82	1060	1
16)	V96	1070	1
1)	V36	1130	2
11)	V67	1160	1
1)	V35	1170	1
8)	V54	1180	
2)	V46	1190	1
5)	V57	1190	1
2)	V62	1210	1
17)	V71	1220	1
1)	V58	1230	
1)		1240	
1)	V37	1270	1
1)	V59	1270	1
15)		1290	1
9)	V23	1300	1
1)	V82	1300	1
5)		1300	
18)	V76	1310	1
2)	V45	1320	1
2)		1320	
13)	V50	1360	1
17)	V70	1380	1
1)	V86	1390	1
4)	V98	1400	1
19)	V78	1400	
3)		1420	
14)	V64	1500	1
1)		1560	

Times: all stations broadc. from around 2100 to around 1700 of 1800; Sun 2200-1600, exc. st's 1), 2), 11) and 12): 24h.

Addresses and other information

1) Cheng Sheng Broadc. Co, 7th Flr, 66-1, Sec. 1, Chungching-nan Rd, Taipei City; Taichung: Nanmen Bridge, Taichung City; Yunlin: 10 Shuiyuan Rd, Huwei Town, Yunlin Pref; Chiayi: 5 Yenhe Rd, Chiayi City; Kaohsiung: 50 Chengying Rd, Kangshan Town, Kaohsiung Pref; Taitung: 8 Yungching Str, Hsinsheng Rd, Taitung Town; Ilan: Ilan Park, Ilan City. **V.** by letter.
2) Tai Wan Broadc. Co, 23-2, 26 Str, Chaoan Rd, Taipei City; Hsinchu: 252 Nanta Rd, Hsinchu City; Taichung:42-1 Sec. 2, Nantun Rd, Taichung City; Chunghsing: 48 Chingyun Rd, Tsaotun Town, Nantou Pref.
3) Chien Kuo Broadc. Co, 36 Wuchang Rd, Hsinying Town, Tainan Pref.
4) Cheng Kung Broadc. Co, 63 Chunghua-san Rd, Kaohsiung City.
5) Sheng Li Chih Sheng Broadc. Co(Voice of Victory), 16 Chienkang Rd, Tainan City. **V.** by letter.
6) Hsien Sheng Broadc. Co, 28-524 Str, Chungshan Rd, Taoyuan City.
7) Chen Hua Broadc. Co, 58-4 Nanhsin Rd, Keelung City.
8) Kuo Sheng Broadc. Co, Pakua-shan, Changhua City.
9) Min Pen Broadc. Co, 70, 640 Str, Wan-ta Rd, Taipei City.
10) Chung Sheng Broadc. Co, 134 Kuangfu Rd, Taichung City.
11) Feng Ming Broadc. Co, 142 Chiuru-erh Rd, Kaohsiung City.
12) Tien Nan Broadc. Co, 31 Sec. 2, Hangchou-nan Rd, Taipei City.
13) Chung Hua Broadc. Co, 15-1st Str, Shuangyuan Rd, Sanchung City, Taipei Pref.
14) Yen Sheng Broadc. Co, 76 Minchuan Rd, Hualien City.
15) Min Li Broadc. Co, 57-20 Minsheng Rd, Pingtung City.
16) Tien Sheng Broadc. Co, 16 Chienkang Rd, Tainan City.
17) Hua Sheng Broadc. Co, 18 Huasheng Rd, Shihlin, Taipei City.
18) Tien Sheng Broadc. Co, 29 Yenpin Rd, Chunan Town, Miaoli Pref.
19) Yi Shi Broadc. St(Catholic Church Broadc. St), 1-10 Ren-erh Rd, Keelung City.

CHRISTMAS ISLAND (Australian Territory)

L.T: GMT+7h – **Pr.L:** English, Malay, Cantonese, Mandarin.

CHRISTMAS ISLAND BROADC. STATION

ADDR: Lower Drumsite, Christmas Island.
STATION: Phospate Hill (G.C.: 105.43E/10.25S).
VLU2 1420kHz 0.5kW.
D.PRGR: Mon-Fri 2300-0500, 1000-1500; Sat 2300-1500; Sun 0100-1130.
The carrier is always on the air as the st. is used for shipping and aircraft information at other times.
ANN: "VLU2, Christmas Island owned and operated by the Administration of the Territory of Christmas Island, in the Indian Ocean" – **V.** by letter.

COCOS (KEELING) ISLANDS (Australian)

L.T: GMT+6½h – **Pr.L:** English.

RADIO COCOS (Gov.)

ADDR: VKW Radio Cocos, Cocos (Keeling Islands).
L.P: St.Mgr: R.W. Pilsbury. Dir.Tec: G. Carty.
STATION: VKW 1400kHz 0.05kW.
HOME SERVICE: 2330-1530.
N (rebroadcasts of R. Australia and BBC): 2330, 0100, 0400, 0600, 1100.
V: Reports not wanted.

DIEGO GARCIA (British Indian Ocean Territory)

L.T: GMT+5h – **Pr.L:** English.

AMERICAN FORCES RADIO AND TELEVISION SERVICE (US Navy)

ADDR: AFRTS/AFDG Radio, NAVCOMSTA, Diego Garcia, FPO San Francisco 96685, California, USA.
L.P: St.Mgr: D. Hager. Dir.Tec: D.D. Shamp.
STATION: 1475kHz 0.25kW.
D.PRGR: 24h. exc. Sun 1900-0000(maintenance).
ANN: "American Forces Radio and Television Service, 1475 on your dial, R. Diego Garcia".

HONG KONG (British)

L.T: GMT+8h (Apr-Oct+9h) – **Pr.L:** Chinese. **E.C:** a/c 50, 200/346V (yes).

RADIO TELEVISION HONG KONG (Gov.)

ADDR: Broadcasting House, P.O. Box 200, Kowloon Central Post Office, Hong Kong. **Te:** 3-370211. **Cable:** "Broadcasts". **Telex:** 75568.

L.P: Dir. of Broadc: J.B. Hawthorne. Asst.Dir. of Broadc: W.W. Hutton. Dir. of Broadc.TV: D.J.N. Kerr. Chief Eng: Yam Yau-ban. Contr. Radio Prgr: K.J. Warburton. Contr. News and Public Affairs: J.S. Dillon.

STATIONS (Studios 17)
RTHK 1: 640kHz 20kW – 89.6MHz 50kW
RTHK 2: 94MHz 50kW (stereo)
RTHK 3: 545kHz 20kW – 87.3MHz 50kW
RTHK 4: 91MHz 50kW (stereo)
RTHK 1 in Chinese: 2230-1700. **N:** 2230, hourly 2300-1700 (1400 rel. BBC Far Eastern St).
RTHK 2 in Chinese: 2345-0200, 1100-1400. **N:** 2345*, 2400, 1200* (*=rel. BBC Far Eastern St).
RTHK 3 in English: 2230-1700. **N:** 2230, hourly 2300-1700(2300, 1000; 1400 rel. BBC Far Eastern St).
RTHK 4 in English: Mon-Fri 0515-1400; Sat/Sun 0100-1400.
ANN: English: "This is R. TV Hong Kong", during splits AM "Radio 3"; FM "Radio 4". Chinese: "Ni do hai Heung Kong deen toy", during splits AM "Heung Kong deen toy tai yat toy" – **V.** by QSL-card. Rec. acc.

HONG KONG COMMERCIAL BROADC. CO. LTD

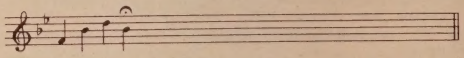
ADDR: P.O. Box 3000, Hong Kong. **Te:** 5-236223. **Cable:** Radioads. **Telex:** HX74016.
L.P: Man.Dir: G. Ho. Dir.Tec: W.S. Ip.

STATIONS

610kHz 10kW-93.1MHz:	2200-1700	Chinese II Sce.
850kHz 10kW-91.7MHz:	2100-1500	Chinese I Sce.
1050kHz 10kW-94.7MHz:	2200-1500	English Sce.

HOME SERVICE
Chinese I: N. ½-hourly 2100-2300, on the h. 2300-1400, 1457 – **Wrp:** 2103, 2133, 2203, 2233, 2303, 0133, 0403, 0657, 1003, 1403, 1500.
Chinese II: N. ½-hourly 2200-1430, 1457 – **Wrp:** 2203, 2233, 2303, 0133, 0403, 0657, 1003, 1403, 1500.
English Sce: N. ½-hourly – **Wrp:** follows all news.

ANN: E: "Commercial R. Hong Kong" – **V.** by letter. Rec. acc. – **INT-SIG** (Chinese Services):



BRITISH FORCES BROADC. SCE. HONG KONG

Is operated by the Ministry of Defence to provide a service of entertainment, information and education as well as a link with home for British and British Gurkha Forces.

ADDR: BFBS, Hong Kong, BFPO 1. **Te:** 12-98391.
L.P: St.Contr: J.M. Campbell. Prgr.Org: Capt. K. Kumar. Sen.Eng: P.J. Keable.
STATIONS: 1250kHz 2kW-99.5MHz 5kW.
D.PRGRS: English 0900-1000, Gurkhali 1000-1300, Sat/Sun 0100-0200. Public Holidays: Gurkhali 0001-0200.
V. by QSL-card. Rp.

INDIA

L.T: GMT+5½h – **Pr.L:** Assamese, Bengali, English, Gujarati, Hindi, Kannada, Kashmiri, Marathi, Malayalam, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu and Urdu.
E.C: a/c 50+d/c, 230/400V (yes).

MINISTRY OF COMMUNICATIONS

Sardar Patel Bhayan, Parliament Str, New Delhi 110001.
L.P: Minister of Communications: Hon. Mr. Raj Bahadur.

ALL INDIA RADIO (Gov.)

ADDR: Directorate General, Akashvani Bhawan, Parliament Str, New Delhi. **Te:** 382021. **Cable:** Airgeneral.
L.P: Dir.Gen: P.C. Chatterji. Chief Eng: D.C. Bhattacharjee. Dep.Dir.Gen.(TV): P.V. Krishnamoorthy. Dir.Adm. and Fin: R.N. Malik. Contr. of Prgrs(TV): M.I. Malik. Additional Chief Engs. N.D. Matange, S.N. Mitra. Dir.Freq. Assign: C.S.R. Rao. Dir. Television Centre: N.L. Chowla. Dir.Ext.Sces: G.K. Mathur. Dep.Dir.Ext.Sces: A.N. Kaul. St. Dirs, Delhi: U.L. Baruah; Calcutta: D.K. Sengupta; Bombay: G.H. Vyas; Madras: M.S. Gopal. Dir.Trans. and Prgr. Exchange Sces: R.N. Das.

STATIONS: Mediumwaves
R=Regional. N=North Reg. Sce: E=East Reg. Sce: S=South Reg. Sce; W=West Reg. Sce (Headquarters: New Delhi), E(Calcutta), S(Madras), W(Bombay) – rVividh Bharati(Commercial Sce).

Station	kHz	kW	Reg.	Station	kHz	kW	Reg.
Jodhpur A	530	100	N	Rohtak	1100	10	N
Aijal	540	2	E	Gulbarga	1110	20	S
Bombay B	550	50	W	Srinagar A	1120	20	N
Ranchi A	560	10	N	Calcutta	1130	1000	E
Dibrugarh	570	100	E	Madras B	1150	1	S
Alleppey	580	100	S	Dharwar B	r1160	1	S
Nagpur	590	10	W	Darbhanga	1160	10	N
Calcutta	590	1000	E	Udaipur	1170	10	N
Ajmer	600	20	N	Trivandrum B	r1170	1	S
Bangalore A	610	50	S	Jabalpur	1180	20	N
Patna	620	20	N	Bombay C	r1190	20	W
Trichur	630	10	S	Bhopal B	r1200	1	N
Kohima	640	50	E	Srinagar D	1200	1	N
Indore A	650	20	N	Tirunelvelli	1200	10	S
Nagpur B	r660	1	W	Shillong	1200	1	E
Trivandruma A	660	5	S	Jodhpur B	1220	1	N
Calcutta A	670	100	E	Hyderabad C	r1220	1	S
Lucknow C	r680	1	N	Calcutta	1220	2.5	EE
Calicut A	680	10	S	Poona B	r1230	1	N
Rajkot A	690	20	W	Ranchi B	r1230	1	N
Siliguri	700	20	E	Chandigarh	r1230	1	N
Jullundur B	710	100	N	Varanasi	1240	10	N
Madras A	720	20	S	Sangli	1250	20	W
Gauhati A	730	50	E	Agartala	1270	10	E
Hyderabad A	740	50	S	Jaipur B	r1270	1	N
Lucknow A	760	50	N	Parbhani	1300	10	W
Simla	770	100	N	Bhuj	1310	10	W
Chatterpur	780		N	Calcutta C	r1320	20	E
Poona A	790	20	W	Bikaner	1330	10	N
Bhadravahti	800	10	S	Tezu	1330	1	E
Delhi A	810	100	N	Jabalpur	1350	20	N
Vijayawada A	840	20	S	Jullundur C	r1350	1	N
Ahamedabad A	850	50	W	Cuttack B	r1350	1	E
Sambalpur	860	20	E	Dharwar A	1360	10	S
Jullundur A	870	50	N	Delhi C	r1370	10	N
Panaji A	880	40	W	Hyderabad B	1380	10	S
Silchar	880	10	E	Gwalior	1390	10	N
Cuddapah	900	20	S	Mysore	1400	10	S
Gorakhpur	910	100	N	Ahamedabad B	1400	1	W
Imphal	920	50	E	Allahabad B	r1420	10	N
Visakhapatnam	930	10	S	Rajkot B	r1420	1	W
Tiruchirapalli A	940	50	S	Kanpur	r1420	1	N
Allahabad A	950	1	N	Bhopal A	1440	10	N
Jalgaon	960	10		Port Blair	1440	1	E
Cuttack A	965	100	E	Jeypore	1460	20	E
Raipur	980	20	N	Bhagalpur	1470	10	N
Jammu A	990	50	N	Jaipur A	1480	1	N
Calcutta B	1000	50	E	Tirucirapalli B	r1480	1	S
Coimbatore	1010	10	S	Srinagar C	r1490	1	N
Delhi B	1020	20	N	Patna B	r1500	1	N
Gauhati B	r1030	10	E	Vijayawada B	r1500	1	S
Bombay A	1040	20	W	Mathura	1530	1	N
Leh	1050	10	N	Tawang	1530	10	E
Bangalore B	r1050	1	S	Panaji B	1540	10	W
Pasighat	1060	1	E	Jammu B	1540	1	N
Pondicherry	1060	1	S	Kanpur	1550	10	N
Rampur	1060	10	N	Madras C	r1550	2.5	S
Rajkot	1070	1000	W	Delhi D	1570	10	N
Calicut B	1090	1	S	Indore B	1590	1	N

Shortwaves

New Delhi: 10/20/50/100kW; Aligarh: 2×250kW. G.C: Delhi 77.12E/28.43N; Madras 80.07E/ 13.08N; Bombay 72.49E/19.11N; Aligarh 78.06E/28.00N.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3255	6085	7215	9615	11715	11880	15285
3295	6105	7225	9625	11725	11895	15310
3365	6120	7260	9630	11735	11935	*15335
3905	6145	7280	9645	11740	*11945	15360
3925	6160	7285	9675	11765	15140	15430
4860	6190	7290	9705	11770	15160	17387
5960	7105	7412	9730	11775	15165	17705
5985	7125	9515	9755	11795	15180	17735
6015	7145	*9525	9912	*11810	15190	17780
6020	7150	9570	9950	11825	*15205	17860
6035	7165	9575	10335	11840	15235	21660
6050	7195	*9590	11620	11850	15280	

*) These freqs may be used by both Delhi and Aligarh.

Shortwaves (other than Aligarh and Delhi)

kHz	kW	Station	Reg.	Times
3205	10	Lucknow B	N	0025-0215,1130-1830
3223	2.5	Simla	N	0100-0200,1300-1830
3235	10	Gauhati C	E	0100-0200,1300-1830
3268	2	Kohima	E	0100-0215,1230-1830
3295	10	Bombay B	W	0025-0215
3305	10	Ranchi	N	0100-0215,1130-1830
3315	10	Bhopal	N	0025-0215,1130-1830
3345	2	Jammu A	N	0100-0215,1130-1730
3355	20	Kurseong	E	1130-1700
3355	10	Hyderabad A	S	0025-0215
3365	10	Delhi A	N	0025-0235,1230-1830
3375	10	Gauhati A	E	0025-0145,1145-1730
4760	2.5	Simla	N	0215-0400,1130-1245
4775	10	Gauhati B	E	1030-1215
4800	10	Hyderabad A	S	1130-1830
4820	10	Calcutta A/B	E	0025-0210,0730-0930 1230-1400
4840	10	Bombay B	W	0230-0400,1230-1830
4850	2	Kohima	E	1000-1300
4880	10	Lucknow	N	0230-0400
4895	20	Kurseong	E	0125-0400
4920	10	Madras A	S	0025-0215
4950	10	Jammu	N	0230-0430
5960	10	Delhi	N	1230-1515
5960	1	Jammu	N	1030-1230
5970	10	Gauhati A	E	0200-1230
5990	10	Bhopal	N	0230-0334
6010	10	Calcutta A	E	0230-0415
6020	2.5	Simla	N	0700-0934,1130-1245
6035	100	Bombay	W	0125-0300
6065	2	Kohima	E	0230-0945
6085	10	Madras B/A	S	0230-0400
6085	100	Madras	S	1245-1515,1530-1730
6120	10	Hyderabad A	S	0230-0334
6130	10	Gauhati B	N	0230-0400, 0530-1015
6140	10	Ranchi	N	0230-0400,0700-0934
6170	10	Lucknow B	N	0415-1115
6190	10	Delhi B	N	0415-1015
7140	10	Hyderabad A	S	0700-0934
7160	10	Madras A	S	0700-0900
7180	10	Bhopal	N	0700-0934
7210	10	Calcutta B	E	0700-0930,1015-1045
7240	10	Bombay B	W	0630-0934
7250	10	Lucknow B	N	
7260	100	Madras	S	0125-0400
9510	100	Madras	S	0600-0700
9575	100	Bombay	W	1300-1445
9750	100	Madras	S	0830-1100
11830	100	Bombay	W	0830-1015
11870	100	Bombay	W	1030-1200
11945	100	Bombay		Ext.Sce.
15080	100	Bombay		Ext.Sce.
15140	100	Bombay		Ext.Sce.
15335	100	Madras		Ext.Sce.

HOME NEWS IN ENGLISH (on Shortwave)

0030-0035 3925/7280

0130-0135 (World News): 3905/6050/7125/7165/9705/11850/11895 and on listed regionals: 4775/6020kHz

0240-0250 Delhi 3905/6050/7125/7290/9615/9705/11850/11895/15310 and on listed regionals: 4760/4775/4800/4895/5970/5990/6065/6120/6130/6140/6170kHz

0830-0840 Delhi 6050/7125/9590/9630/11715/11935/15180/15235/15285 and on listed regionals: 6020/7140/7170/7180/7210/7250kHz

0850-0915 (dictation): Delhi 6050/7125/9590/9630/11715/11935/15180/15235/15285 and on listed regionals: 7170/7210kHz

1135-1140 (State Development News): Delhi 3905/6050/9675/9705/11725/11850/11935/15430/17865kHz

1230-1235 Delhi 3905/6120/7280/9575/9705/11725/11735/15430 and on listed regionals: 4800/4920kHz

1430-1435 (Sports News): Delhi 3255/3925/4860/6015/7125/7280/7195/7412/9950/10335/11840kHz

1530-1545 Delhi 3255/3925/4860/6015/7125/7195/7412/9705/9645/9950/10335/11840kHz and on listed regionals: 3205/3268/3305/3315/3355/3375/4800/4920kHz
1730-1735 (World News): 3255/3925/4860/6015/7412/9950/11840kHz

News in English also at 0030, 0432, 0532, 0632, 0732, 1032, 1830, 2 mins duration each. All local trs have regional ann. after the 1530-news from Delhi.

EXTERNAL SERVICES

ADDR: Director of External Services, P.O. Box 500, New Delhi – 11000.

STATIONS
B=Bombay, C=Calcutta, J=Jullundur, M=Madras, R=Rajkot. Others at Delhi/Aligarh.

Times	L.	kHz	News
0130-0430	Urdu	710(J)/1070(R)/6160	0145,0400
0830-1130	Urdu	710(J)/1070(R)/9675	0832,1050
1200-1300	Sindhi	1070(R)/7260	1205-1215
1300-1330	Baluchi	1070(R)/6145	1305-1310
1330-1430	Punjabi	710(J)	1333-1335
1430-1830	Urdu	710(J)/3295	1430,1630 1730

GENERAL SERVICE (for Indians Overseas)

S.E. Asia			
2300-2400	Hindi	1130(C)/6120	2305-2315
0000-0045	Tamil	7125/9912	0005-0015
1130-1230	Tamil	15335(M)	1225-1230

EASTERN SERVICE

Nepal			
0130-0215	Nepali	590(C)/6105/7225	0200-0210
0700-0730	Nepali	7125/9630	0701-0706
1400-1440	Nepali	1130(C)	1430-1440
Bhutan, Sikkim			
0215-0230	Tibetan	590(C)/6105/7225/9705	0215-0221
1230-1315	Tibetan	5960/7125	1245-1255
Burma			
0045-0115	Burmese	1130(C)/6120/7125	0045-0055
1115-1215	Burmese	15235/17780	1115-1125
Thailand			
1130-1200	Thai	17705/21660	1134-1140
China			
2145-2245	Cantonese/Kuoyu	1130(C)/7290	2146,2230
1215-1315	Cantonese/Kuoyu	1130(C)/7105 9625/11620	1215,1300
Indonesia			
0845-0945	Indonesian	15165/17860	0845-0855
Sri Lanka			
1245-1315	Sinhala	11725/15430	1250-1258
So.Ea.Asia			
1115-1130	French	17705/21660	1115-1125

WESTERN SERVICE

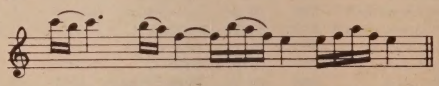
Afghanistan			
0245-0330	Pushto	6020/7225	0250-0300
0715-0800	Dari	9675/11765	0720-0730
1330-1400	Dari	1070(R)	1330-1335
1430-1545	Pushto	1070(R)/3905	1435,1540
Iran			
0345-0400	Persian	15080/17387	0250-0259
1615-1715	Persian	3905/9912	1615-1625
1600-1730	Persian	1070(R)	1615,1725
USSR			
1615-1715	Russian	7105/9615	1630
West Asia			
0400-0430	Arabic	15080/17387	0410-0420
1730-1830	Arabic	3905/9912	1745-1755
1730-1930	Arabic	1070(R)	1925
No. and We. Africa			
1845-1930	French	9755/11880	1850-1900
Ea. Africa			
0330-0415	Hindi	15140/17705	0335-0345
0415-0430	Gujarati	15140/17705	0415-0430
1515-1615	Swahili	15140/17705	1530-1540
1615-1700	Hindi	9730/15080	1620-1630
1700-1745	Gujarati	9730/15080	1705-1715
0435-0445	Konkani	15140/17705	0435-0445

GENERAL OVERSEAS SERVICE in English

		News
East and So. Ea. Asia	**kHz**	
2245-0115	3905/6085/7215/9590/11770	2300,0100
1330-1500	11810/15335	1330,1455
No. Ea. Asia		
2245-0115	9525/11825/11850	2300,0100
1000-1100	11725/15190/17387	1000,1055
Australia/New Zealand		
1000-1100	11775/15205/15165	1000,1055
2045-2230	7145/9912/11740	2100,2200
Ea. Africa		
1745-1945	9730/15080(B)	1800,1900
We. and No. Africa		
1945-2045	9755/11880	2000
UK and Western Europe		
1745-2230	7225/9525/11620	1800,1900
1945-2230	9912	2000,2100 2200

ANN: Home Sce: Tamil: "Akashvani . . . (name of regional st)" or "All India Radio (name of regional st), Vanali Niliyan". Hindi: "Ye Akashvani (name of regional st)". E: "This is All India Radio" – External Sce: E: "This is the General Overseas Sce of All India R". Dari: "Inja Delhi". Nepalese: "Yo All India Radio Ho". Persian: "Injo Delhi". Pushto: "Da All India R. Delhi De". Sinhala: "Me All India R. Videshiya Sevayai".

INT-SIG: All India Radio's signature is a melody of eight seconds' duration repeated with intervals of 10 seconds in between. The instruments used are violin, cello and tampura.



V. by QSL-card (Reports to: Post Box No. 500, New Delhi).
PUB: "India Calling" in English and bulletins in 7 regional languages for home listeners. Requests for free supplies of copies to: The Editor, India Calling, All India Radio, PTI Buildings, Parliament Street, New Delhi-110 001, or through Indian Diplomatic Missions abroad.
F.PL: 50kW SW-tr. at Calcutta, 2×100kW-MW, 3×10kW-MW, 3×10kW-MW, 4×5kW-MW and 3 low power auxiliary sts.

RADIO KASHMIR

ADDR: Govt. of India, Office of the Station Director, Radio Kashmir, Srinagar.
L.P: Asst.St. Engineer: P.N. Nehru.

Stations	kHz	kW	Times
Srinagar A	1120	20	0100-0445,0600-1702
Srinagar B	3277	7.5	0100-0200,1230-1730
	4860	7.5	0215-0430
	6110	7.5	0700-0930
Srinagar C	1200	1	0125-0400,0445-0700 0830-1015,1300-1700
Srinagar C	1490	1	1215-1545
Jammu A	990	50	0100-0400,0530-0934 1200-1734
	3345	2	0100-0215,1130-1734
	4950	10	0230-0430
	5960	1	1030-1200

Srinagar radiates own prgrs. Jammu relays All India Radio – **V.** by letter.

INDONESIA

L.T: We. Indonesia (Java, Sumatra, Bali): GMT+7h; Ce. Indonesia (Borneo, Celebes, Lombok): GMT+8h; Ea. Indonesia (Moluccas, Irian Jaya): GMT+9h – **Pr.L:** Bahasa Indonesia (Indonesian) – **EC:** a/c 50, 127/220V (yes).

DIRECTORATE GENERAL OF POSTS AND TELECOMMUNICATIONS, Jalan Kebon Sirih 37, Jakarta. **Cable:** Radiogen.

L.P: Dir.Gen: Mr. Sumadi. Dep.Dir.Gen: S. Nasoetion.

Mediumwaves (u=official information, not monitored yet). Usually commercial sts broadcast between 2200 and 1600, with breaks in mid-morning and mid-afternoon.

	kHz	kW	Station
20)	540u	10	RRI Bandung
11)	585u	100	RRI Surabaya – not yet started
55)	630u	100	RRI Ujung Pandang
168)	665		R. Merdeka, Surabaya
72)	720u	10	RRI Ambon
181)	725u		R. Draba, Jakarta
205)	753u		R. Sumber Kasih, Manado
51)	756u	10	RRI Purwokerto
169)	765		R. Antariksa, Surabaya
84)	770v	0.25	R. Metrojaya, Jakarta
153)	770		R. Casanova, Denpasar
57)	801u	10	RRI Semarang
119)	810u	10	RRI Merauke
9)	820	0.5	R. Prambors, Jakarta (nom.805)
1)	845	0.25	Kebebasan Broadc. & Press Sce, Jakarta
20)	845		RRI Bandung (Reg.Prgr)
167)	850		R. Migantara, Bandung
6)	855u	100	RRI Medan
38)	855u	10	RRI Mataram
37)	864u	10	RRI Ciribon
182)	865u		R. Kanajaya, Jakarta
83)	885		R. Ramaco, Jakarta
183)	905u		R. Univ. Kristen Indonesia, Jakarta
21)	925u		R. Khakti Budhi Bhakti, Jakarta (cf.1425kHz)
102)	927u	50	RRI Pakanbaru
184)	945		R. Kejayaan, Jakarta
156)	945		R. Erkatika, Padang
121)	954u	10	RRI Kendari
30)	965	10	RRI Jember
185)	965u		R. Univ. Assiafiah, Jakarta
49)	974	50	RRI Surakarta
2)	985	0.5	R. Eltivi/Elmona, Jakarta
10)	990u	300	RRI Jakarta (nom.999)
3)	1000	0.5	R. Kutilang 162, Jakarta
266)	1000u		R. Siaran Bharata, Magelang
210)	1000u		R. Sion, Tomohon Minasa
186)	1005u		RPTDI, Jakarta
222)	1005u		R. Jatayu, Semarang
246)	1005u		R. Sananta, Tegal
78)	1008u	10	RRI Madiun
6)	1010		RRI Nusantara III, Medan
4)	1015	0.5	R. P2SC, Jakarta (nom.1025)
264)	1025u		R. Konservatori, Sala
162)	1035		R. Bonsita, Medan
5)	1045		R. Suara Pembangunan, Jakarta
226)	1045u		R. Cindelaras, Semarang
241)	1045u		R. Chandra(Wonopringgo), Pekalongan
111)	1052u	10	RRI Jayapura
185)	1065u		R. Univ. Attahiriyah, Jakarta
221)	1065u		R. Caraka, Semarang
260)	1065u		R. ABC, Sala
157)	1070		R. Suara Mahasiswa Sumatra Barat, Padang
43)	1080u		RRI Singaraja
69)	1085		R. Univ. Trisakti, Jakarta
225)	1085u		R. Fisoa Sakti, Semarang
267)	1085u		R. Songs and Advertising, Sala
88)	1098u	10	RRI Sumenep
54)	1098u	10	RRI Jambi
203)	1100u		R. Sound of Love, Manado
163)	1100		R. Erlangga, Medan
220)	1105u		R. Bhayangkara, Semarang
254)	1105u		R. Rosana, Purwokerto
187)	1105u		R. Univ. Muhammadiyah, Jakarta
33)	1107u	10	RRI Yogjakarta
120)	1116u	10	RRI Biak
188)	1125u		R. Kayumanis, Jakarta
6)	1130	0.3	RRI Medan
73)	1134u	50	RRI Banjarmasin
7)	1145	0.5	R. Sonora Muda, Jakarta
237)	1145u		R. Veritas, Semarang
261)	1145u		R. FKUII, Sala
209)	1150u		Yay. R. Blue Angel
7a)	1159		R. Suara Amigos, Jakarta (nom.1165)
256)	1165u		R. Yasyfi, Purwokerto
229)	1165u		R. Widya Parawita, Semarang
8)	1165	0.25	R. Rajawali, Surabaya

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ALL INDIA RADIO

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THE DIRECTOR OF EXTERNAL SERVICES DIVISION

ALL INDIA RADIO

POST BOX 500
NEW DELHI (INDIA)

	kHz	kW	Station
57)	1170u	50	RRI Semarang
112)	1185	5	RRI Tanjung Pinang
224)	1185u		R. Pasopati, Semarang
242)	1185u		R. Suara Angkatan Baru(R. Saba), Pekalongan
189)	1185u		R. Univ. Tarumanegara, Jakarta
177)	1195		R. Menara, Denpasar
208)	1200u		R. Voice of Hope, Manado
202)	1201u		R. Al Chairaat, Manado
231)	1205u		R. PTDI Kab. Semarang, Semarang
263)	1205u		R. Suara Roiska, Sala
190)	1205u		R. Agustina Junior, Jakarta
164)	1205		R. Elderaba, Medan
154)	1205		R. Menara, Denpasar
46)	1206u	10	RRI Denpasar
11)	1206	1	RRI Surabaya
215)	1206u		R. Golden Star, Kauditan Minahasa
216)	1206u		R. Baruna Putra, Bitung Minahasa
166)	1210		R. Kontinental, Bandung
197)	1213u		R. Veritas, Manado
80)	1215u	10	RRI Samarinda
152)	1225		R. Garuda Angkasa, Bandung
12)	1225		R. Univ. Darul Mukminin, Jakarta
243)	1225u		R. Santo Bernardus, Pekalongan
235)	1225u		R. Gajah Nada, Semarang
56)	1233u	50	RRI Pontianak
251)	1245u		R. Aspirasi Mahasiswa, Magelang
191)	1245u		R. Cadrawala 188, Jakarta
217)	1245u		R. Burunawati, Minahasa
211)	1250u		Suara Anugerah, Tomohon Minahasa
39)	1251u	10	RRI Banda Aceh
13)	1265		R. Monalisa, Jakarta
239)	1265u		R. Sahara, Kendal
16)	1285	0.5	R. Antar Nusa, Jakarta
218)	1285u		R. Mercy, Semarang
245)	1285u		R. Angkatan Ichsaniyah, Tegal
44)	1287	50	RRI Palembang
158)	1295		R. Suara Dembosgo, Padang
14)	1300	0.25	R. Monalisa, Bandung
15)	1305u		R. Pelita Kasih, Jakarta
199)	1305u		R. Frambors Trijaya, Manado
227)	1305u		R. Perk. Ichtus, Semarang
240)	1305u		R. Suhada, Pekalongan
201)	1312u		R. Continental, Manado
159)	1315		R. SBS, Padang
45)	1323u	10	RRI Malang
250)	1325u		R. Polaris, Magelang
192)	1325u		R. Lokawicesa, Jakarta
10)	1334	10	RRI Jakarta (Kebayoran)
200)	1350u		R. Karya Dharma, Manado
193)	1365u		R. Kencana Bamari, Jakarta
244)	1365u		R. PTDI Cab, Pekalongan
257)	1365u		R. PTDI Cab, Purwojero
259)	1365u		R. Pembangunan Nasional, Sala
238)	1365u		R. PTDI Kaliwungu, Semarang
207)	1370u		R. Yapim, Manado
20)	1380		RRI Bandung
18)	1385		R. Nanggala, Jakarta
11)	1385		RRI Surabaya
249)	1385u		R. PTDI Cab. Pati
258)	1385u		R. Purnomosidi, Wonosobo
160)	1395		R. Suara Mersi Niagavokadara, Bukittinggi
212)	1399u		R. Esa Enang, Langowan Minahasa
206)	1400u		CV Bintang Harapan, Manado
194)	1405u		R. RMT 10, Jakarta
232)	1405u		R. Cendekia Puruhita, Semarang
247)	1405u		R. Anita, Tegal
165)	1410		R. Kontesa, Bandung
169)	1415		R. Merkuri, Surabaya
252)	1425u		R. Widya Bhakti, Magelang
248)	1425u		R. Manggala, Kudus
21)	1425	0.5	R. Khakti Budhi Bhakti, Jakarta
195)	1425u		R. Almakmuriyah, Jakarta
22)	1445	0.25	R. Elbama, Jakarta
233)	1445u		R. Lusiana, Semarang
23)	1455	0.5	R. Univ. Tanumanagara, Jakarta
204)	1463u		R. Mercy Watari, Manado
24)	1465	0.25	R. Elshinta, Jakarta
223)	1465u		PT. Rateksa, Semarang
255)	1465u		R. Amatron, Purwojero
236)	1485u		R. Unisa 205, Semarang
213)	1490u		R. Carmaya Voice, Langowan Minahasa
230)	1505u		R. Imelda, Semarang
176)	1515		R. Yudha, Denpasar
265)	1525u		R. Sumbing Wijaya Kusuma, Klaten
25)	1525u		R. Cendrawasih, Jakarta
53)	1530u	10	RRI Padang
55)	1540		RRI Ujung Pandang
234)	1545u		R. Kesehatan, Semarang
26)	1545		R. Trijaya Sakti, Jakarta
198)	1554u		R. Suara Kemurahan, Manado
27)	1565		R. Komersial, Jakarta
196)	1565u		R. Arief Rachman Hakim, Jakarta
253)	1565u		R. Exodus, Pemanggung
219)	1565u		R. IBC, Semarang
161)	1585		R. La Paloma, Bukittinggi
262)	1585u		R. Rama, Sala
228)	1585u		R. Andromeda, Semarang
214)	1595u		R. Pancaran Berkat, Tondano Minahasa
155)	1600		R. YBS, Denpasar

Shortwaves: *) inactive, r) reported, v) varies.

270	2140		R. Lafayette, Ujung Pandang
281)	2300		R. Dirgantara, Singaraja
280)	2300		R. El Vici, Singaraja
10)	2307	2.5	RRI Jakarta (Kebayoran): 2200-0100(Sun 0800), 0500-0800
291)	2320		Yayasan Mesjid An Nur, Denpasar
277)	2320		R. Akaj, Ujung Pandang
138)	2325	0.25	RPDK Cianjur: 2200-2215, 0930-1600
30)	*2330	0.5	RRI Jember
271)	2330		R. Silicon, Ujung Pandang
10)	2330v	5	RRI Jakarta: 2200-0100, 0500-0800, 1000-1600
113)	2336	0.6	RPDK Tarikmalaya: 2300-1100-1600
31)	2340	0.075	R. Univ. Indonesia
32)	2340	0.075	R. Univ. Ibnu Khaldun
33)	2350	1	RRI Yogyakarta: 2155-0300, 0455-0800(Sun 2155-0800), 0955-1630. E: 0030-0045, 1130-1145
278)	2360		R. Telstar, Ujung Pandang
11)	2370	1	RRI Surabaya: 2300-0100(Sun 0700), 0500-0700, 0930-1600(**English** 0930-1000)
34)	2370	0.075	R. Univ. Mahammadiyah
35)	2370	0.075	R. Univ. Islam Assiafiah
36)	2370	0.075	R. Univ. Ptoi
10)	2380	2.5	RRI Jakarta: 0900-1700
269)	2380		R. Rosa, Ujung Pandang
37)	2390	1	RRI Ciribon: 2300-0100(Sun 0800), 0500-0800, 1000-1600
39)	*2390	0.075	RRI Banda Aceh
274)	2400		R. Venus, Ujung Pandang
40)	2400		R. Siaran Non-Pemerintah, Suara Kasih: r0800-1302
145)	2415	0.25	RPDK Sumedang: 2200- , 1100-1600
20)	2420	0.08	RRI Bandung: Prgr. Kota Kembang 2200-0500, 1100-1600
43)	2420	0.5	RRI Singaraja: 1000-1600
276)	2420		R. Quba'a, Ujung Pandang
45)	*2430	0.3	RRI Malang
46)	2431	0.3	RRI Denpasar: 0000-0500, 0700-1600
44)	2435	1	RRI Palembang: 2200-0100, 0500-0800(Sun 0000-0700), 0900-1600
171)	2435	0.075	R. Cama Jaya, Jakarta: r1300-1706
49)	2440	0.6	RRI Surakarta: 2300-0100(Sun 0800), 0500-0800, 1000-1600
10)	2452	5	RRI Jakarta: 2200-0100, 1000-1700(**English** 1130-1200)
287)	2459		R. Angka Rama 813, Singaraja
139)	2464		RDK Purwokerto: 2300-0500, 1100-1600
275)	2464		R. Suara Al-Ichwan, Ujung Pandang
123)	2467		RPDK Blitar: 2000-2130
52)	2475	0.5	R. Angkatan Udara Bersenjata, Jakarta: 1000-1700
53)	2480	1	RRI Padang: 2200-0100(Sun 0800), 0500-0800, 1000-1600
278)	2480		R. Antariksa, Ujung Pandang
55)	2490	2	RRI Ujung Pandang: 2130-0030, 0830-1515
57)	2490	1	RRI Semarang: 2230-0115, 0500-1600

	kHz	kW	Station
140)	2503	0.25	RDK Bandung: 2200-0100(r0503), 1100-1600
148)	2522		RPD Kota Madya, Sukabumi (Java): Mon/Thurs 1230-1500
58)	2525		R. Non Pemerintah-Suara Amida, Jayapura: r0800-1300
20)	2740		RRI Bandung: 0500-0800, 1000-1600
85)	2830		RRI Tanjung Karang: r1300
286)	2835u		R. El Viva, Singaraja
175)	2857		RKPDK Magelang
60)	2854	0.75	RKPDK Lombok Timur, Selong: r1100-1500
141)	2868	0.25	RPDK Lamongan: r1100-1600v
17)	2907		RKPDK Gresik: 0700-0800, 1000-1600
142)	2920	0.25	RPDK Klaten: 1200-1600
149)	3020	0.25	RPDK Kendal: 1200-1645
131)	3030		RKPD Surabaya
28)	3047	0.25	RKPDK Pasuruan: 2100-2200, 1100-1600(Sat 24h)
62)	3055		RKPDK Sampang: 0100-0200, 1100-1600
31)	3061		RKPDK Tingkat II, Surabaya: r1600
29)	3076		RKPDK Blora: r1600
41)	3105	0.25	RPDK Brebes: r1515
108)	3105		RKPDK Sumbawa: r1400
63)	3116v	0.25	RDK Serang: 0015-0045, r1130-1600
178)	3120		RRI Dili: 0950-1400
92)	3137		R. Siaran PDK Cikampek: r1510
64)	3164	0.5	RKPD Kota Madya, Surabaya: 2200-0500(Sun 0600), 0900-1700
290)	3200u		R. Station of Love Casanova, Denpasar
289)	3200u		R. Venus 2×46, Denpasar
285)	3200u		Massachusetts Club, Singaraja
20)	3205	10	RRI Bandung (Reg.Prgr): 2200-0100
55)	3215v	0.3	RRI Ujang Pandang: 2130-0030 (Sun 0715), 0830-1515
279)	3220u		R. Santosa, Ujung Pandang
38)	3223	5/1	RRI Mataram: 2130-0115(5kW), 0200-0400(1kW), 0600-0730(1kW), 0900-1515(5kW)
67)	3232	1	RRI Bukittinggi: 0500-0700, 1100-1530
72)	3241	1	RRI Ambon: 2100-2200, 0800-1400
79)	3241	1	RRI Sibolga: 2300-0100, 0500-0800 (Sun 2300-0800), 0900-1600
73)	3250	20	RRI Banjarmasin: 2200-0100 (Sun 2300-0715), 0900-1515v
119)	3252	1	RRI Merauke: 2200-0300, 0800-1400
108)	3260		RKPDK Sumbawa: 1000-1645(nom.3896)
6)	3275	7.5	RRI Medan: 2330-1700
282)	3275u		R. Kumaras Thana Ikip, Singaraja
283)	3275u		R. Guntur IB29, Singaraja
10)	3277	7.5	RRI Jakarta (Kebayoran): 0500-0800, 1000-1700
78)	3286	1	RRI Madiun: 2200-0100(Sun 0800), 1000-1600
80)	3295	7.5	RRI Samarinda: 0900-1515v
140)	3300v		R. Kotamadya Daerah, Tingkat II, Bandung
284)	3300u		R. Mercury, Singaraja
67)	3305	1	RRI Bukittinggi: 2200-0300, 0500-0800
131)	3305	0.35	RKPD Tingkat I, Surabaya: 1200-1515
59)	3305		RKPD Jatim
30)	3323	1	RRI Jember: 2200-0100, 0600(Sun 0200)-0800, 1000-1600
111)	3325		RRI Jayapura: 2100-0100, 0500-0800, 1400-1600(Sun 0900-1600)
39)	3335	1	RRI Banda Aceh: 2100-2330(Sun 0600), 0800-1400
272)	3340		R. Bharata Yudha, Ujung Pandang
150)	3342	10	RDK Pandeglang: r1100-1600
87)	3344	1	RRI Manokwari: 0300-0600, 0800-1400
56)	3345	10	RRI Pontianak: 2200-0100, 0400(Sun 2300)-0700, 0900-1515v
88)	3355	1	RRI Sumenep: 2300-0100(Sun 0700), 0500-0700, 1000-1600(Sat 1830)
53)	3360v		RRI Padang: 2230-0045, 1000-1600
61)	3360		RDK Lahat: r1435
19)	3367		R. Angkatan Udara, Medan: 0430-0730, 0930-1600v
54)	3375	1	RRI Jambi: 2300-0130(Sun 0000-0500), 1000-1600
45)	3380v	1	RRI Malang: 2200-0100, 0500-0800, 1000-1600
179)	3385		RRI Pangkalpinang: 1200-1515
90)	3385	10	RRI Kupang: 2200-0015(Sun 0600), 0400-0615, 0900-1515v
43)	3395	1	RRI Singaraja: 2200-2400(Sun 0700), 1000-1600
268)	3395		R. Gandaria BCS, Ujung Pandang
52)	3408	2.5	R. Angkatan Bersenjata, Jakarta: 2300-0200, 0500-0800, 1000-1800
6)	3414	7.5	RRI Medan II: 2330-0200, 0500-0800, 1000-1600. **English** 0930-1000(nom.3995)
95)	3433	0.6	RPDK Kediri: 1100-1600
51)	3445	0.15	RRI Purwokerto: 2300-0100(Sun 0800), 0500-0800, 1000-1600
97)	3453	0.25	RPDK Bima, Raba: 1100-1500
99)	3472	0.55	RKPDK Jombang: irr. 0430-0500, 0930-1000(r1010-1600)
101)	3484	0.11	RKPDK Tingkat II, Pemekasan: 2255-0430, 1030-1600
180)	3514	0.5	R. Niagadan Budaya Simalungun, Pematang Siantar: 2255-0200, 0355-0630, 0755-1100, 1155-1530
104)	3541v		RKPDK Bangkalan: r1100-1600
90)	3550		RRI Kupang: 1000-1515
105)	3578		RPDK Panarukan, Situbundo: 2200-0300, 0500-0800, 1000-1600(Sat 1830)
143)	3612	0.25	RPDK Banjar: 1100-1500
65)	3628	0.25	RPDK Tulungagung: r1045-1400
66)	3630		RKPDK Banyuwangi: r-1605
103)	3710		RPDK Pematang Siantar: 0100-0200, 1000-1100
107)	3762	0.25	RKPDK Tuban: 2100-2315, 1000-1600(Sat 1830)
108)	3778	0.25	RKPDK Sumbawa: 1000-1410
100)	3800	0.25	RKPDK Jember: 2200-2315, 0955-1600 (or 1630)
172)	3805		R. Maubere, Timor: Wed/Fri/Sun 0930-1125
173)	3850		Timor: 0950-1400(Sat 1500)
74)	3866		RKPD Pekalongan
75)	3888		RPDK Batang: r1000-1450
109)	3893	0.9	RPDK Sidoarjo: 2125-0230(Fri 0300, Sun 0500), 0855-1600(Sat 1830)
110)	3905	1	RRI Palangkaraya: 0900-1520
111)	3905	0.5	RRI Jayapura: 2100-2300(Sun 2200-0300), 0300-0500, 0800-1400
115)	3916	1	RRI Ternate: 2100- , 0800-1400
116)	3925	1	RRI Bogor: 2200-0100, 1000-1600
57)	3935	10/5	RRI Semarang: 2230-0115(Sun 0800), 0500-0800, 1000-1600 (or 1700)
46)	3945	10	RRI Denpasar: 2200-0100, 0957-1600(Sat 1930 irr)
115)	3945	1	RRI Ternate: 0800-1400
85)	3955	2.5	RRI Tanjungkarang (cf.3995)
53)	3960	10/1	RRI Padang: 2230-0045, 1000-1600v
117)	3960	1.5	RRI Palu: 0900-1600
56)	3965	10	RRI Pontianak: 2200-0100, 0900-1515
11)	3975	10	RRI Surabaya: 2200-0100, 0500-0700(Sun 0000-0700), 0958-1600v
85)	3995	2.5	RRI Tanjungkarang: 2200-0100(Sun 0000-0800), 0900-1600
121)	4000	5	RRI Kendari: 2200-2300, 0900-1515
146)	4060		RKPDK Bojonegoro: r1200-1300
123)	4087		RPDK Blitar: 2200-2300, 0630-1600
—	4115		RPDK Garut: 1430-1600
—	4140		RKPDK Kotamadya Kediri: r1400
38)	4300	1	RRI Mataram: 0900-1515
81)	4330		RPD Deli Serdang, Madan: r0030
82)	4375	0.25	RPDK Soppeng: 1100-1515
37)	4495	0.3	RRI Ciribon
125)	4601	0.25	RKPD Kabupaten Trenggalek: 2300-2400, 1100-1600v
94)	4605		RRI Serui: 0800-1250 (or 1350)
103)	4650	0.36	RPDK Simalungun, Pematang Siantar: 2315-0200, 0430-0745, 0925-1600
126)	4698	2	RK Pusat Informasi Pertanian,

PEOPLE'S REP. OF MONGOLIA
ULAN BATOR
URUMCHI
Sinkiang-Uigur
Inner Mongolia
TSITSIHAR
Heilungkiang
HARBIN
ULAN HOT
KUSHIRO
SAPPORO
Kirin
KIRIN
CHANGCHUN
Liaoning
VLADIVOSTOK
AKITA
SEA OF JAPAN
SENDAI
DEM. PEOPLE'S REP. KOREA
NIIGATA
JAPAN
KANAZAWA
TOKYO
PYONGYANG
SEOUL
INCHON
TAEGU
KYOTO
SHIZUOKA
NAGOYA
OSAKA
MATSUE
HIROSHIMA
REP. OF KOREA
TSINGTAO
PUSAN
FUKUOKA
YELLOW SEA
KOCHI
KUMAMOTO
KAGOSHIMA
Cheju
HUHEHOT
PEKING
TIENTSIN
Kansu
Hopeh
TAIYUAN
Tsinghai
SINING
Ningsia Hui
LANCHOW
Shansi
Shantung
THE PEOPLES REPUBLIC OF CHINA
Shensi
SIAN
CHENGCHOW
Honan
Tibet
LHASA
Szechwan
CHENGTU
Anhwei
NANKING
Kiangsu
CHANCHOW
SHANGHAI
WUHAN
Hupeh
DIBRUGARH
INDIA
CHUNGKING
HANGCHOW
Chekiang
Ryukyu Islands (JAPAN)
KOHIMA
IMPHAL
Kweichow
CHANGSHA
Hunan
NANCHANG
WENCHOW
KWEIYANG
Kiangsi
KUNMING
FOOCHOW
EAST CHINA SEA
NAHA
Okinawa
Yünnan
Chuang
Kwangtung
Fukien
TAIPEI
TAIWAN
BURMA
CANTON
NANNING
TAINAN
HANOI
CHIANG RAI
LAOS
MACAU
HONG KONG
NORTH PACIFIC OCEAN
CHIANG MAI
VIENTIANE
RANGOON
GULF OF TONKIN
LAOAG
Luzon
BAY OF BENGAL
THAILAND
NAKHON RATCHASIMA
QUEZON CITY
BANGKOK
DEM. REP. VIETNAM
MANILA
CHANTABURI
LEGASPI
Mindoro
KHMER REP.
SOUTH CHINA SEA
Samar
PHILIPPINES
PNOM PENH
SAIGON
Panay
Leyte
GULF OF SIAM
Palawan
Negros
Cebu
PHUKET
NAKHONSIHAMMARAT
Mindanao
TRUST TERRITORY OF THE PACIFIC ISL.
DAVAO CITY
BANDA ACEH
Basil
Jolo
FEDERATION OF MALAYSIA
KOTA KINABALU
BRUNEI
Sabah
PENANG
MEDAN
BANDAR SERI BEGAWAN
KUALA LUMPUR
CELEBES SEA
MALACCA
Sarawak
Malaya
KUCHING
PAKANBARU
SIBU
MANADO
TERNATE
MANOKWARI
SINGAPORE
BUKITTINGGI
PONTIANAK
SORONG
PADANG
MOLUCCA SEA
DJAMBI
(Borneo)
SAMARINDA
Irian Jaya
Sumatra
Kalimantan
PALU
(Celebes)
KENDARI
AMBON
Seram
PALEMBANG
Sulawesi
INDIAN OCEAN
INDONESIA
BANJARMASIN
JAVA SEA
UJUNG PANDANG
JAKARTA
BANDA SEA
BOGOR
CIREBON
SEMARANG
FLORES SEA
SUMENEP
BANDUNG
Java
SURABAYA
Flores
TIMOR
YOGYAKARTA
SURAKARTA
MADIUN
Bali
JEMBER
DENPASAR
DILI
ARAFURA SEA
BURMA +6.30 G.M.T.+7
MALAYSIA +7.30
G.M.T. +8
G.M.T.+ 9
SOUTH EAST ASIA
INDONESIA, FEDERATION OF MALAYSIA
0 500 1000 1500 KM

	kHz	kW	Station
			Surabaya: 2200-0200, 0500-0700, 1000-1700
55)	4719	50	RRI Ujung Pandang: 1230-1515v (Sat 1600)
6)	4764	50/20	RRI Medan: 2200- , 0900-1600
79)	4771	1	RRI Sibolga: 2300-0100, 0500-0800, 0900-1600
10)	4774	50	RRI Jakarta: 2200-0200, 0800-1600
93)	4790	0.5	RRI Fak-Fak: 2100-2300, 0800-1530
90)	4805	0.3	RRI Kupang: 2200-0015(Sun 0600), 0400-0615, 0900-1515
10)	4805	20	RRI Jakarta: 2200-0100, 1000-1600
78)	4830		RRI Madiun: 0500-0800
72)	4845	10	RRI Ambon: 2100-0015, 0400-0600, 0800-1400(Sun 2200-1600)
44)	4855	10	RRI Palembang: 2200-0115(Sun 0700), 0900-1600v
127)	4871	10	RRI Sorong: 2100-2300, 0800-1400
67)	4885	1	RRI Bukittinggi: 2300-0300, 1000-1600
128)	4900	1	RRI Gorontalo: 2200-0030(Sun 2300-0500), 0830-1515
110)	4920	5	RRI Palangkaraya: 2300-2400(Sun 0200), 0400-0600, 0900-1515
54)	4927	7.5	RRI Jambi: 2200-0115, 0700-0800(Sun 2350-0800), 1000-1600
49)	4932	10	RRI Surakarta: 1000-1600(Sat 1700)
20)	4945	2.5	RRI Bandung: 0500-0800
112)	4945		RRI Tanjung Pinang: 2130-0100, 0500(Sun 0300)-0715, 0900-1200 (0500-0715 0.15kW, other times 1kW)
39)	4955	10	RRI Banda Aceh: 2300-0015(Sun 0600), 0800-1600
55)	4985	20	RRI Ujung Pandang: 2130-0030, 0830-1230
117)	5010	0.15	RRI Palu: 2300-0130(Sun 0900-1515)
120)	5030		RRI Biak: 0800-1400
76)	5040	0.05	RRI Wamena: 2300-0400
33)	5047	20	RRI Yogyakarta: 0100-0300, 0455-0800, 1000-1630(Sun/Mon 1700) (**English** 1130-1145)
79)	5260	1	RRI Sibolga: 2300-0030, 0600-0800, 1000-1600
130)	5490	0.75	R. Univ. Gajah Mada (Suara Gama), Yogyakarta: 0800-1000, 1300-1500(Sun 1000-1400)
102)	5885v	5	RRI Pekanbaru: 2330-0100, 0200-0600, 1000-1600
73)	5970	1	RRI Banjarmasin: 0400-0715, 0900-1515
137)	5975	0.05	RRI Nabire: 0900-1100
132)	5987	10	RRI Menado: 2130-0010, 0830-1515
10)	6045	120	RRI Jakarta: 2200-0100, 0500-0800(Sun 2200-0800), 1000-1600
111)	6070	20	RRI Jayapura: 2300-0000, 0800(Sun 0700)-1130
119)	6070	0.05	RRI Merauke: 2100-2300, 0300-0600
11)	6120	0.25	RRI Surabaya: 2200-0200, 0500-1000, (**English** 0930-0955)
80)	6134v	4	RRI Samarinda: 2200-0100, 0400-0715, 0800-1515
87)	6150	0.5	RRI Manokwari: 0100-0515, 0800-1400
53)	6190	10	RRI Padang: 2330-0220(Sun 0700), 0500-0800
134)	*6298		RPDK Banggai
10)	7070		RRI Jakarta: 2200-0100, 0500-0800, 1000-1330(1430)
33)	7100	7.5	RRI Yogyakarta: 0000-0415, 0455-0800, 1000-1600
33)	7110	50	RRI Yogyakarta: 2200-0230, 0500-0700, 0955-1400(**English** 1130-1145)
46)	7114	1	RRI Denpasar: 0900-1500
111)	7120v	10	RRI Jayapura: 0300-0600, 0800-1400
72)	7140	10	RRI Ambon: 2100-0115 (Sun 2200-0400), 0800-1400
111)	7165	10	RRI Jayapura: irr
120)	7210	0.5	RRI Biak: 0300-0700, 0800-1400
10)	7220	1	RRI Jakarta (Kebayoran) spec. telegraph sce: 2200-1600
6)	7240	7.5	RRI Medan: 0500-0700, 0900-1600
38)	7240	0.15	RRI Mataram: 2200-0700
11)	7266	0.075	RRI Surabaya
132)	7285	0.3	RRI Menado: 2200-0200(Sun 0700), 0900-1515
55)	9510	7.5	RRI Ujung Pandang: 0000-0300, 0500-0825
127)	9610	0.08	RRI Sorong (cf.9745kHz)
111)	9613	5	RRI Jayapura: 2200-2300, 0300-0600, 0800-1400
10)	9710	50	RRI Jakarta: Foreign Sce
119)	9745	5	RRI Merauke: 2100-0100, 0300-0600
10)	11770	100	RRI Jakarta: 2200-0100, 0500-0800
10)	11790	100	RRI Jakarta: Foreign Sce

HOME SERVICES

RADIO REPUBLIK INDONESIA (Gov.)

ADDR: Tromolpos 157 (Medan Merdeka Barat 9), Jakarta. **Te:** 49366. **Cable:** RRI.

L.P: Dir: T. Sugito. Dir. Domestic Sces: M.P. Tantrawar. Head of Overseas Prgrs: P. Puspodibrote. Head of Development and Int. Cooperation: Poerbojo. Head of Eng: S. Brotodirdjo. Head of Int. Rel. Section: Soewarto. St.Mgr.Jakarta: A. Siregar.

Central Station: Jakarta 10.

National Prgr: 2200-0100(Sun 2200-0800), 0500-0930, 1000-1600 on 2330/4805/6045/7057/9710/11770kHz.

N: 2200, 2300, 0400, 0500, 0600, 0700, 1100, 1200, 1300, 1400, 1500.

Local Prgr: 2200-1700 on 1335/2313/2380/2450kHz + 103.7MHz (0.3kW).

Special (3rd) Prgr: 2200-0100, 0800-1700 on 3277/4775kHz.

N: 2200, 2300 (3277kHz sometimes rep. with a 4th prgr).

ANN: Nat Prgr: "Inilah R. Republik Indonesia, Programa Nasional Jakarta". Local Prgr: "Inilah R. Republik Indonesia Jakarta dengan Siaran untuk Masyarakat Ibukota dan Sekitarnya". Special Prgr: "Inilah R. Republik Indonesia Programa Khusus Jakarta". All newscasts: "Inilah R. Republik Indonesia dengan Warta-Berita". E: "This is R. Republik Indonesia Jakarta, Metropolitan Prgr".

Regional Stations

Nusantara I: 55 (key st), 38, 43, 46, 56, 72, 73, 76, 80, 87, 90, 93, 94, 110, 111, 115, 117, 119, 120, 121, 127, 128, 132, 137.

Nusantara II: 33 (key st), 11, 20, 30, 37, 45, 49, 51, 57, 78, 88, 116.

Nusantara III: 6 (key st), 39, 44, 53, 54, 67, 79, 85, 102, 112.

ANN: 55) "Inilah R. Republik Indonesia Nusantara Satu, Ujung Pandang"; 33) "Inilah R. Republik Indonesia Nusantara Dua, Yogyakarta"; 6) "Inilah R. Republik Indonesia Nusantara Tiga Medan"; 38) "Inilah R. Republik Indonesia Studio Mataram" – **V.** by QSL-card or letter. Re. to be sent to R. Republik Indonesia, Studio (name of city).

F.PL: 11×10kW and 1×50kW SW-trs, 21×10kW and 3×50kW MW-trs. Also one 10kW FM-tr.

FOREIGN SERVICE

ADDR: Voice of Indonesia, P.O. Box 157, Jakarta.

STATIONS: Jakarta (G.C: 106.50E/06.12S).

kHz	kW	kHz	kW	kHz	kW
6045	120	9710	100	11790	100

Arabic	kHz
1500-1600	9710,11790

French	kHz
1300-1400	9710,11790

Chinese	kHz
0030-0100	9710,11790
0800-0830	9710,11790
1200-1300	9710,11790

Indonesian	kHz
0100-0230	9710,11790
0930-1000	9710,11790
1000-1100	11790

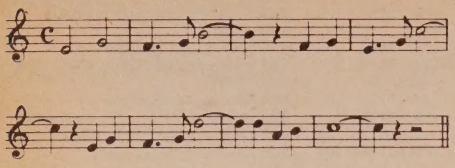
English	kHz
2330-2400	9710,11790
0900-0930	9710,11790
1100-1200	11790

Malay	kHz
0000-0030	9710,11790
0830-0900	9710,11790

N. in English: 2330, 0900, 1100. **N. in Indonesian:** 0025.

ANN: E: "This is the Voice of Indonesia broadc. from Jakarta". Indonesian/Malay: "Inilah Suara Indonesia" –

INT-SIG: Rayuan Pulau Kelapa or "Love Ambon" (the song of the Coconut Islands played on Hammond Organ, Flute, Vibe and Piano).



V. by QSL-card or letter. Listeners' reports are welcome – **PUB:** Weekly: RRI Radio dan Televisi (Home prgr) – **ALF:** Rupiah 600,-

Commercial Stations: Permitted power: 0.25kW. Permitted D.Prgrs: 2200, 1600. All to have converted to MW before March 23rd, 1975. Many stations still rep. on SW.

Provincial Gov. Station: Radio Khusus Pemerintah Daerah.

Propinsi: 131.

District Stations: Radio Khusus Pemerintah Daerah.

Kabupaten (Sometimes "Khusus" (special) is deleted). The term "Tingkat II (Dua)" is sometimes used instead of "Kabupaten". Both mean "District".

Municipal Stations: Only intended for particular towns. Radio Khusus Pemerintah Daerah (e.g. Kota Madya Surabaya). St.64.

Agricultural Information Department operates Radio Khusus Informasi Pertanian, Surabaya (126).

Radio Angkatan Bersenjata (Military Stations): 19, 52.

Religious Missionary Station: 40.

Addresses and other information (Jln=Jalan)

1) Jln. Bacang III/4, Kebayoran Baru, Jakarta Selatan.
2) Jln. Kemenangan II/1, W.Jakarta.
3) Jln. Ottoiskandar III/162, Ea.Jakarta.
4) Jln. Siliwangi II/I, C.Jakarta.
5) Gedung Hailai Ancol, Jakarta.
6) Jln. Letkol Martinus Lubis 5, Medan.
7) Jln. Gajah Mada 109, Jakarta.
7a) Jln. Wijaya 10/1, Kebayoran Baru, Jakarta.
8) 5 Kacapiring, Surabaya.
9) Jln. Borobudur 20, C.Jakarta.
10) Tromolpos 157, Medan Merdeka Barat 9, Jakarta.
11) Jln. Pemuda 90, Surabaya. **F.PL:** 100kW MW. tr.
12) Ikatan Keluarga Radio Universitas Islam Darul Mukminin, Jln. Bekasi Timur IV, Jatinegara, Jakarta.
13) Jln. Melawai Raya 111, Kebayoran Baru, Jakarta. – Gen.Mgr: Drs Harsono. **English** Mon 1100-1200.
14) Jln. Murang 68, Cipapanti, Bandung Utara, W.Java.
15) Jln. Gunung Sahari IV/8, C.Jakarta.
16) Jln. Petoja Utara, Jakarta.
17) Gresik.
18) Jln. Ir. H. Juanda III/317, C.Jakarta.
19) Medan.
20) Jln. Diponegoro 61, Bandung.
21) Jln. Kaji 6, C.Jakarta.
22) Jln. Taman Bendungan Asahan III/78, Jakarta Pusat.
23) Jln. Besuki 23, W.Jakarta.
25) Jln. Batu Ceper V/62, Jakarta.
26) Jln. Ir. Juanda II/4a, C.Jakarta.
27) Jakarta.
28) Pasuruan.
29) Blora.
30) Jln. Maluku I, Jember.
31) Jln. Teuka Umar 45, C.Jakarta.
32) Mesjid Istiglal, C.Jakarta.
33) Jln. Amat Yayuli 4, Yogyakarta.
34) Jln. Limau I No. 1, Kebyr, So.Jakarta.
35) Jln. Bali Matraman 17, So.Jakarta.
36) Jln. Mandala I Gg. III/2 Tebet, So.Jakarta.
37) Jln. Siliwangi 101, Ciribon.
38) Jln. Langko 13, Ampenan, Mataram.
39) Jln. Sultan Iskandar Muda 13, Banda Aceh.
40) P.O. Box 33, Jayapura, Irian Jaya.
41) Brebes.
42) Cicampek.
43) Jln. Gajahmada, Singaraja, Bali.
44) Jln. Merdeka 2, Palembang. **F.PL:** 50kW MW-tr.
45) Jln. Cerma 16, Malang.
46) Jln. Melati 49, Denpasar.
49) Jln. Marconi 1, Surakarta.
51) Jln. Raya 211, Purwokerto.
52) Jln. Cipinang Cemped ak I, Polonia Jatinegara, Jakarta.
53) Jln. Jendral Sudirman 12, Padang. **F.PL:** 10kW MW-tr.
54) Jln. Mhd. Tahir 36, Jambi.
55) Jln. Riburane 2, Ujung Pandang. **F.PL:** 100kW MW-tr.
56) Jln. Jendral Sudirman 7, Pontianak.
57) Jln. Jend. A. Yani 144-146, Semarang. **F.PL:** 10kW MW-tr.
58) Jln. Sukarelawan 6, Dok V, Jayapura, Irian Jaya.
59) Jatim.
60) Selong, Lombok, Nusa Tenggara Barat.
61) Lahat.
62) Sampang, Madura, Jawa Timur.
63) Jln. Jend. A. Yani 39, Serang, Jawa Barat.
64) Humas Gelora 10 Nopember, Jln. Tambaksari, Surabaya, Jawa Timur. Also ann: "Radio Gelora Surabaya".
65) Tulungagung.
66) Banjuwangi.
67) Jln. Rivai 22, Bukittinggi.
68) Jln. Bekasi Timur IV, Jatinegara, Ea.Jakarta.
69) Jln. Kyai Tapa Grogol, W.Jakarta.
70) Jln. Melayu Besar 68, Jatinegara, Ea.Jakarta.
71) Jln. Pasar Minggu 13 Dekat Station PS, Minggu, Ea. - Jakarta.
72) Jln. Jend. A. Yani, Ambon.
73) Jln. Lambung Mangkurat 1, Banjarmasin. **F.PL:** 50kW MW-tr.
74) Pekalongan.
75) Batang.
76) Wamena, Irian Jaya.
78) Jln. Kalimantan 6, Madiun.
79) Jln. Ade Irma Suryani Nasution 5, Sibolga.
80) Jln. Permandian 34-35, Samarinda.
81) Medan.
82) Soppeng.
83) Jln. Keamanan 39, W.Jakarta.
84) Jakarta.
85) Jln. Urip Sumoharjo 1 (Pahoman), P.O. Box 24, Tanjungkarang, Lampung – Dir.Gen: Awaluddin Gindo. **V.** by letter. Re. in E. acc. **F.PL:** 10kW.
87) Manokwari, Irian Jaya.
88) Jln. Kalianget, Sumenep.
90) Jln. Tompello 8, Kupang.
93) Fak-Fak, Irian Jaya.
94) Serui, Irian Jaya.
95) Pengasuh Jawaban Surat-2RPD, Tingkat II, Kediri, Jawa Timur. Slogan "Suara Canda Birawa".
97) Raba Sumbawa.
99) Jln. K.H. Wakhid Hasyim 133, Jombang, Jawa Timur.
100) Jember, Jawa Timur.
101) Jln. Pamongpraja 3, Pamekasan, Madura, Jawa Timur – Gen.Dir: M. Tabrani.
102) Jln. Jendr. A. Yani, 13, Pakanbaru. **F.PL:** 50kW MW-tr.
103) Jln. Merdeka 1, P.O. Box 25, Pematang Siantar, Sumatera Utara.
104) Surabaya.
105) Jln. Kartini 1, Situbondo, Jawa Timur.
107) Tuban, Jawa Timur.
108) Jln. Setiabudi 25, Sumbawa Besar, Nusa Tenggara Barat.
109) Jln. Gubernur Suryo 1, Sidoarjo, Jawa Timur.
110) Palangkaraya.
111) Jayapura, Irian Jaya.
112) Jln. Diponegoro 579, Tanjung Pinang.
113) Jln. Alun-Alun 1, Tasikmalaya.
115) Jln. Kedaton, Ternate.
116) Jln. Pangrango 30, Bogor.
117) Palu, Sulawesi Tengah.
119) Merauke, Irian Jaya.
120) Jln. Achmad Yani, Kotak Pos 505, Biak, Irian Raya.
121) Jln. Pantai 4, Kendari.
123) 8 Jln. Semeru No. 40, Blitar, Jawa Timur.
124) Sukohardjo-Jawa.
125) Jln. K.H. Wahid Hasyim 1, Trenggalek, Jawa Timur.
126) Jln. Jen. Ahmad Yani 156, Kotak Pos 247, Wonocolo, Surabaya, Jawa Timur.
127) Sorong, Irian Jaya.
128) Jln. Mawar No. SK6/38, Gorontalo, Sulawesi.
129) Jln. Merdeka 6/39, Poso, Sulawesi Tengah.

130) Sekip Unit V Lantai IV, Universitas Gajah Mada, Yogyakarta.
131) Surabaya.
132) Jln. Sam Ratulangi 3, Menado.
134) Luwuk, Sulawesi.
137) Nabire, Irian Jaya.
138) Cianjur, Jawa Barat.
139) Purwokerto, Jawa Barat.
140) Jln. Raya Cilember 319, Cimahi, Bandung, Jawa Barat.
141) Lamongan, Jawa Timur.
142) Jln. Pemuda Tengah 27, Klaten, Jawa Tengah.
143) Martapura, Kalimantan Selatan.
144) Tuban, Jawa Timur.
145) Sumedang, Jawa Barat.
146) Bojonegoro, Jawa Timur.
148) Sukabumi, Jawa Barat.
149) Kendal, Jawa Tengah.
150) Jln. Alun-Alun Utara No. 1, Pandeglang, Jawa Barat.
152) Jln. Veteran-Belakang, Bandung.
153) Jln. Veteran No. 4, Denpasar.
154) Jln. Sulawesi, Denpasar.
155) RYBS (Yuda Broadc. Sce), Jln. Salya 9, Denpasar.
156 to 159) all Padang.
160) Jln. Jambu Gir, Bukittinggi.
161) Jln. Tembok, Bukittinggi.
162 to 164) all Medan.
165 to 167) all Bandung.
168) Surabaya.
171) Jakarta.
172) Location believed to be E.Timor. (Fretilin run). Trs in **Portuguese** and **English**.
173 and 174) Dili.
175) Jln. Allon-Aloon Utara, Magelang.
176) Jln. Salya No. 9, Denpasar.
177) Jln. Sulawesi 51, Denpasar.
179) Pangkalpinang, Bangka Island.
180) P.O. Box 26, Pematang Siantar.
181) Jln. Lautze 68 B, Jakarta.
182) Komplex Pacuan Luda Pulo Mas, Jakarta.
183) Jln. Diponegoro No. 86, Jakarta.
184) Jln. Pakubuwono VI/73 Keby Baru, Jakarta.
185) Jln. Bali Matraman 17, Jakarta.
186) Jln. Mandala Gg. 111 No. 2 Tebet, Jakarta.
187) Jln. Limau 1 Kebayoran Baru, Jakarta.
188) Jln. Kayumanis V E No. 286, Jakarta.
189) Jln. S. Parman, Grogal, Jakarta.
190) Jln. Jepara Lorong 52/6 T.Priok, Jakarta.
191) Jln. Gajah Mada No. 188, Jakarta.
192) Komplex Lokasari Mangga Desar, Jakarta.
193) Jln. Warakas VIII/11 T.Priok, Jakarta.
194) Jln. Merdeka Timur No. 10, Jakarta.
195) Jln. Dibelaka g Stasion Pasar Minggu, Jakarta.
196) Taman Ismail Marzuki, Jakarta.
197) Jln. Geroja St. Yoseph Kleak, Manado, Sulawesi.
198) Jln. Sam Ratulangi, Manado, Sulawesi
199) Jln. Wayang, Manado, Sulawesi.
200) (PT. Sukadharma), Jln. Toar No. 62, Manado, Sulawesi.
201) Jln. Kemakmuran, Manado, Sulawesi.
202) Jln. Yos Sudarso, Manado, Sulawesi.
203) Kpg. Singkil, Manado, Sulawesi.
204) Jln. Kol. Sugiyono, Manado, Sulawesi.
205) Jln. Sam Ratulangi No. 6, Manado, Sulawesi.
206) Jln. Bumi Beringing, Manado, Sulawesi.
207) Jln. Wil. Istiqlal, Manado, Sulawesi.
208) Jln. Ibu Walanda Maramis, Manado, Sulawesi.
209) Jln. Titiwungen Dalam, Manado, Sulawesi.
210) Tomohon Minahasa, Sulawesi.
211) Jln. Kakaskasen, Tomohon Minahasa, Sulawesi.
212) Longowan Minahasa, Sulawesi.
213) Langowan Minahasa, Sulawesi.
214) Tondano Minahasa, Sulawesi.
215) Kauditan Minahasa, Sulawesi.
216) Bitung Minahasa, Sulawesi.
217) Minahasa, Sulawesi.
218) Jln. Dr. Cipto No. 175, Semarang, Jawa.
219) Jln. Rambutan Dalam No. 86, Semarang, Jawa.
220) Jln. Piere Tendean, Semarang, Jawa.
221) Jln. Argopuro No. 4, Semarang, Jawa.
222) Jln. Jegosari VII No. 3 & 5, Semarang, Jawa.
223) Jln. Mangunearkoro, Semarang, Jawa.
224) Jln. Erlangga No. 4, Semarang, Jawa.
225) Jln. Pemuda No. 1, Semarang, Jawa.
226) Jln. Hataram No. 948, Semarang, Jawa.
227) Jln. Pemuda No. 75 Blk., Semarang, Jawa.
228) Jln. Overste Sudiarto No. 45, Semarang, Jawa.
229) Jln. Seteran Dalam No. 9, Semarang, Jawa.
230) Jln. Dr. Gipto No. 88, Semarang, Jawa.
231) Kompleks PHI, Jln. KH. Wahid Hasyim No. 125, Semarang, Jawa.
232) Jln. Veteran No. 67, Semarang, Jawa.
233) Jln. Raung No. 7 Candi Baru, Semarang, Jawa.
234) Jln. Pahlawan No. 1, Semarang, Jawa.
235) Jln. MT. Haryono No. 161, Semarang, Jawa.
236) Jln. Mataram No. 657, Semarang, Jawa.
237) Gang Pinggir No. 62, Semarang, Jawa.
238) Jln. Pandean No. 63, Kaliwungu, Semarang, Jawa.
239) Jln. Raya No. 240, Kendal, Jawa.
240) Pav. Gedung Koperasi Batik, Pekajangan Pekalongan, Jawa.
241) Ambu Kembang Kedungwuni, Pekalongan, Jawa.
242) Jln. Sultan Agung No. 163, Pekalongan, Jawa.
243) Jln. Barito No. 4, Pekalongan, Jawa.
244) Jln. Dr. Wahidin No. 102, Pekalongan, Jawa.
245) Jln. Waru No. 5, Tegal, Jawa.
246) Jln. Kapten Ismail No. 56, Tegal, Jawa.
247) Jln. Gajah Mada No. 35, Tegal, Jawa.
248) Jln. Sunen Kudus No. 194, Kudus, Jawa.
249) Jln. Raden Danang No. 3, Pati, Jawa.
250) Jln. Keben No. 15, Magelang, Jawa.
251) Jln. Pendowo PA, Magelang, Jawa.
252) Jln. Alun2 Salatan No. 7, Magelang, Jawa.
253) Jln. S. Parman No. 20A, Temanggung, Jawa.
254) Jln. Jend. Sudirman Barat No. 13, Purwokerto, Jawa.
255) Jln. Jend. A. Yani No. 5 A, Purwojero, Jawa.
256) Jln. Tirtodranan No. 25, Purwojero, Jawa.
257) (Radio Kenanga), Jln. Kenanga No. 10, Purwojero, Jawa.
258) Jln. Argopeni No. 2, Wonosobo, Jawa.
259) Jln. Kol. Sutarto No. 150, Sala, Jawa.
260) Jln. Pasar Kliwon No. 180, Sala, Jawa.
261) Jln. Brigjend. Sudiarto No. 60, Sala, Jawa.
262) Jln. Purwojero No. 10, Sala, Jawa.
263) Jln. Brigjend. Slamet Riyadi No. 26, Sala, Jawa.
264) Jln. Konservatori, Sala, Jawa.
265) Jln. Pemuda Selatan No. 28, Klaten, Jawa.
266) Jln. Teuka Umar No. 8, Magelang, Jawa.
267) Jln. Honggowongso No. 22, Sala, Jawa.
268) Jln. Buru No. 28, Ujung Pandang, Sulawesi.
269) Jln. S. Limboto No. 42, Ujung Pandang, Sulawesi.
270) Jln. Buru No. 10A? Ujung Pandang, Sulawesi.
271) Jln. RE. Martadinata, Ujung Pandang, Sulawesi.
272) Jln. Rajawali No. 16, Ujung Pandang, Sulawesi.
273) Jln. Nusantara No. 91, Ujung Pandang, Sulawesi.
274) Jln. Somba Opa No. 41 & 43, Ujung Pandang, Sulawesi.
275) Jln. Banda Lrg. 203/5, Ujung Pandang, Sulawesi.
276) Jln. Timmbu Lrg. 184A/42, Ujung Pandang, Sulawesi.
277) Jln. Kajaolalido, Ujung Pandang, Sulawesi.
278) Jln. S. Tangka (Gubernuran), Ujung Pandang, Sulawesi.
279) Jln. G. Bawakaraeng No. 29, Ujung Pandang, Sulawesi.
280) Jln. Jend. Soedirman No. 22, Singaraja, Bali.
281) Jln. Kalimantan No. 23, Singaraja, Bali.
282) Jln. Pramuka Taman Kuma, Rasthana, Bali.
283) Jln. Imam Bonjol No. 29, Singaraja, Bali.
284) Jln. Jeruk Gg Langgar No. 11, Singaraja, Bali.
285) Jln. Rajah Mada No. 12, Singaraja, Bali.
286) Jln. Jempiring No. 16, Singaraja, Bali.
287) Jln. Nangka No. 6, Kp. Kajanan, Singaraja, Bali.
288) Jln. Denpasar No. 37, Denpasar, Bali.
289) Jln. Sahadewa No. 2A, Denpasar, Bali.
290) Jln. Veteran No. 4, Denpasar, Bali.
291) Jln. Diponegoro 198, Denpasar, Bali.

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Open his eyes to a new world by sending him a **WRTH 1977.**

JAPAN

L.T: GMT+9h – **Pr.L:** Japanese – **EC:** a/c 50+60 (yes).

RADIO REGULATORY BUREAU MINISTRY OF POSTS & TELECOMMUNICATIONS

ADDR: 3-2, Kasumigaseki 1-chome, Chiyodaku, Tokyo 100. **Cable:** Radiogen.
L.P: Dir.Gen: Akio Ishikawa.

NIPPON HOSO KYOKAI (NHK)

(The Japan Broadcasting Corporation).
ADDR: 2-2-1 Jinnan, Shibuya-ku, Tokyo. **Te:** 465-1111. **Cable:** RADIONHK. **Telex:** J.22377.
L.P: Chmn. (Board of Governors): S. Kudo. Pres: K. Ono. Vice-Pres: T. Sakamoto. Dir.Gen. of Engineering: K. Fujishima. Gen. Broadc. Adm: Y. Hori. Hqs. of Tech. Adm. and Construction: Y. Sawamura. Overseas Broadc. Dept: T. Hashimoto. Man.Dir International Affairs: T. Hashimoto. Man. Foreign Rel. Div: S. Shimizu. Man. Prgr. Contr. Div: K. Shiraishi. Man. Europe/America Div: A. Noguchi. Man. Asia Div: T.S. Nakajima. Man. News Div: T. Kimura.
STATIONS: Mediumwaves: The mediumwave (535-1065kHz) tr's are used for domestic radio sce. in the 1st and 2nd netw. both extensive enough to place the entire country under coverage.
1)=1st Netw; 2)=2nd Netw. **Call:** JO - -,
St's in bold are reg. key st's exc. Tokyo (Headquarters).

Name & Prgr.	Call	kHz	kW	Name & Prgr.	Call	kHz	kW
Morioka 1	QG	530	10	Kotu 1	KG	930	5
Yamagata 1	JG	540	5	Fukui 1	FG	930	5
Nanao 1		540	1	Wakkanai 1		930	1
Miyazaki 1	MG	540	1	Aomori 1	TG	960	5
Matsumoto 1	SG	540	1	**Matsuyama 1**	ZK	960	5
Kitakyushu 1	SK	540	1	Saga 1	SP	960	1
Ishigaki 1		540	1	Yonago 1	LQ	960	1
Okinawa 1	AP	550	10	Hagi 1		960	1
Sapporo 1	IK	570	100	Fukuoka 2	LB	980	50
Kagoshima 1	HG	580	10	Kochi 1	RK	990	10
Kushiro 1	PG	580	10	Fukuyama 1	DP	1000	1
Tokyo 1	AK	590	100	Nakamura 1		1000	1
Okayama 1	KK	600	5	Hamamatsu 1	DG	1000	1
Nayoro 1		600	1	Hachinohe	TQ	1000	1
Fukuoka 1	LK	610	100	**Hiroshima 1**	FK	1070	20
Asahikawa 1	CG	620	3	Tottori 2	LC	1080	1
Nobeoka 1		620	1	Takamatsu 2	HD	1080	1
Iida 1		620	1	Toyama 2	IC	1080	1
Kyoto 1	OK	620	1	Muroran 2	IT	1080	1
Shizuoka 2	PB	640	10	Obihiro 2	OC	1080	1
Toyama 1	IG	650	5	**Sendai 2**	HB	1090	10
Nagasaki 1	AG	660	5	Kushiro 2	PC	1150	10
Obihiro 1	OG	660	5	Kochi 2	RB	1150	10
Osaka 1	BK	670	100	Akita 1	UK	1170	10
Yamaguchi 1	UG	680	5	Kitami 1	KP	1190	10
Hakodate 1	VK	680	5	Kanazawa 1	JK	1220	10
Tokyo 2	AB	690	300	Matsue 1	TK	1300	10
Hiroshima 2	FB	700	10	Tsuruoka 1	JP	1320	1
Kitami 2	KD	700	10	Tottori 1	LG	1320	1
Nagoya 1	CK	730	10	**Okinawa 2**	AD	1360	10
Sapporo 2	IB	750	100	Yamaguchi 2	UC	1370	5
Kumamoto 1	GK	760	10	Nagano 2	NB	1370	1
Akita 2	UB	770	500	Takayama 2		1370	1
Tokushima 1	XK	780	5	Nayoro 2		1370	1
Muroran 1	IU	780	3	Takamatsu 1	HP	1380	5
Hikone 1	BS	780	1	Morioka 2	QC	1390	10
Takayama 1		790	1	Kanazawa 2	JB	1390	10
Takada 1		790	1	Kagoshima 2	HC	1390	10
Naze 1		790	1	Asahikawa 2	CC	1470	1
Enbetsu 1		790	1	Fukuyama 2	DD	1470	1
Koriyama 1	CP	820	1	Oita 2	ID	1470	1
Nagano 1	NK	820	1	Kofu 2	KC	1470	1
Hitoyoshi 1		820	1	Miyazaki 2	MC	1470	1
Oita 1		820	1	Hakodate 2	VB	1470	1
Osaka 2	BB	830	300	Nobeoka 2		1480	1
Niigata 1	QK	840	10	Naze 2		1480	1
Uwajima 1		850	1	**Matsuyama 2**	ZB	1510	5
Kumamoto 2	GB	870	500	Koriyama 2	CD	1510	1
Shizuoka 1	PK	880	10	Tsuruoka 2	JD	1510	1
Sendai 1	HK	890	20	Matsumoto 2	SC	1510	1
Nagoya 2	CB	910	10	Hachinohe 2	TZ	1510	1
Hamamatsu 2	DC	1520	1	Matsue 2	TB	1590	10
Aomori 2	TC	1520	1	Okayama 2	KB	1600	5
Fukui 2	FC	1520	1	Nagasaki 2	AC	1600	1
Yamagata 2	JC	1520	1	Kitakyushu 2	SB	1600	1
Yonago 2	LU	1520	1	Uwajima 2		1600	1
Ishigaki 2		1520	1	Enbetsu 2		1600	1
Niigata 2	QB	1590	10	Hitoyoshi 2		1600	1

+198 low power st's not mentioned.

HOME SERVICES

1st Netw: 2000-1500 – **N:** W every h and 0456, 0656, 0756, 0856, 1455; Sun: Every h exc. 0100, 0200, 0500, 0700, 1100, also 1455 – **Wrp:** 2030, 2057, 2113, 2150, 2215, 2247, 2358, 0058, 0158, 0255, 0313, 0358, 0458, 0505, 0608, 0658, 0758, 0950, 1015, 1158, 1310, 1358, 1458 – **Mbg.** W: 2150 – **T.S:** Every h.
2nd Netw: D 2030-1500 – **English: N;** W 1000 – **L.L: Fundamental Course of English:** W 2105-2125, 1800-1830, 0920-0940. **English Conversation:** W 2125-2140, 0500-0530, 0945-0950. **German:** 2200-2220. **French:** 2240-2300. **Russian:** 2220-2240. **Spanish** (Mon, Wed, Fri): 2300-2320. **Chinese** (Tues, Thurs, Sat): 2300-2320. **Wrp:** 0015, 0700, 1300. **School Broadc:** W 0000-0300, 0400-0500(not Sat).

FM-Stations:

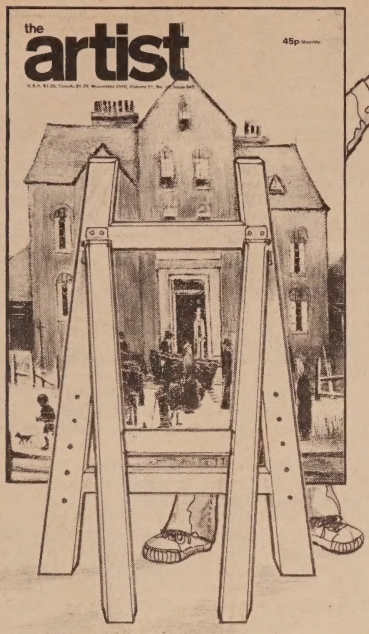
Location	MHz	kW	Location	MHz	kW
Sapporo	85.2	5	Gifu	83.6	1
Nayoro	88.2	1	Shizuoka	88.8	1
Shirekoma	89.1	1	Kanazawa	82.2	1
Nakashibetsu	89.9	1	Fukui	83.4	1
Sendai	82.5	5	Toyama	81.5	1
Akita	86.7	3	Otsu	84.0	1
Yamagata	82.1	1	Kyoto	82.8	1
Morioka	83.1	1	Osaka	88.1	10
Fukushima	85.3	1	Himeji	84.2	1
Aomori	86.0	3	Hiroshima	88.3	1
Tokyo	82.5	10	Okayama	88.7	1
Maebashi	81.6	1	Hamada	85.8	1
Mito	83.2	1	Matsuyama	87.7	1
Utsunomiya	80.3	1	Tokushima	83.4	1
Chiba	80.7	5	Takamatsu	86.0	1
Yokohama	81.9	5	Kumamoto	85.4	1
Urawa	85.1	5	Fukuoka	84.8	3
Kofu	85.6	1	Kagoshima	85.6	1
Niigata	82.3	1	Tanegashima	84.4	1
Yamato	83.5	1	Oita	88.9	1
Nagoya	82.5	10	Okinawa	88.1	1
Tsu	81.8	3			

+411 relay st's not mentioned (as of April 1976). D. 2100-1500 (Monophonic and Stereophonic broadc. in Pilot tone system).

FOREIGN SERVICE

I=No. America Sce; II=No., Ce. & So. American & Hawaiian Sce; III=European Sce; IV=So. American Sce; V=Australia/N.Z. Sce; VI=So. Ea. Asian Sce; VII=Asian Continent Sce; VIII=So. Asian and African Sce; IX=M. East and No. African Sce.
Languages: a) English – b) Japanese, English, Spanish – c) Swedish, Italian, German, French, English – d) German, English, Russian – e) Japanese, Portuguese, Spanish – f) Russian, Chinese – g) Chinese – h) Korean – i) Indonesian, English, Malay – j) Burmese, Vietnamese, French, Indonesian, Thai, Chinese – k) Vietnamese – l) Bengali, Hindi, Urdu, Swahili, English, French – m) Arabic, English, French.
STATIONS: Yamata (G.C: 139.50E/36.10N): 2×20kW, 2×50kW and 8×100kW sw-tr's.

kHz	kW	kHz	kW	kHz	kW
5955	100	9670	200	15195	100
5990	100	9675	100	15235	100
6030	50	9700	200	15270	100
7140	20/100	9705	20	15300	100
7195	20	11705	100	15310	100/200
7205	20	11780	100	15325	100
7250	100	11815	100	15410	20
9505	100	11840	50	15430	100
9525	100	11875	100	17725	100
9530	100	11940	50	17825	200
9585	100	11960	200	17880	100
9605	100	15105	100		



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GENERAL SCE. in English & Japanese:

Times	kHz	Times	kHz
0100-0130 }	9585	1200-1230 }	5990, 9585, 11815
0200-0230 }	15105,	1300-1330 }	
0300-0330 }	17880	1400-1530 }	
0400-0430 }	9505,9585,	1600-1630 }	
0500-0530 }	17880	1700-1730 }	
0600-0630 }	9505,15310,	1800-1830 }	
0700-0730 }	17880	1900-1930 }	9505,9585
0800-0830 }	9505,15195,	2000-2030 }	11815
0900-0930 }	15310	2100-2130 }	
1000-1130	5990,9585 15195	2200-2230 }	9585,15105
		2300-0030 }	15195

N: Every h. on the h.

REGIONAL SERVICES:

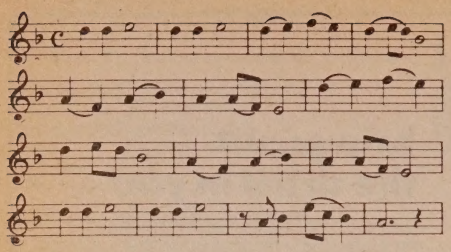
Times	Sce.	kHz	L	N. in English
2345-0045	I	9525,11705	a	2345-2355
0100-0300	II	15195,15420 17725,17825	b	0130-0140
2300-2330	VI	11840,15300 15410	k	
0630-0830	III	15325,11960	c	0800-0810
0900-1100	IV	5955,9605 11705	c	
0930-1030	V	11875,15235	a	0930-0940
1000-1045	VI	7195,9705 11940	g	
1045-1215	VI	9675,11875	i	1115-1125
0900-0945	VII	6030,7140 7205	h	
1200-1515	VI	9525,11780 11840	j	
1230-1345	VII	7140,6030 11875	f	
1430-1730	VIII	9670,7250	l	1630-1640
1800-1930	III	9605,7195	d	1830-1840
1945-2115	IX	9700,7250	m	2015-2025
2145-2230	VII	6030,7140 7205	h	
2245-2330	VII	7140,9675 11875	g	

NEWS (in other languages): **French:** 0730 (III), 1300 (VI), 1700 (VIII), 2045 (IX) – **German:** 0700 (III), 1800 (III) – **Spanish:** 0230 (II), 1030 (IV) – **Chinese:** 1300 (VII), 2245 (VIII), 1000 (VI), 1430 (VI) – **Indonesian:** 1045 (VI), 1330 (VI) – **Arabic:** 1945 (IX) – **Swedish:** 0630 (III) – **Italian:** 0645 (III) – **Russian:** 1900 (III), 1230 (VII) – **Portuguese:** 1000 (IV) – **Burmese:** 1200 (VI) – **Vietnamese:** 2300 (VI), 1230 (VI) – **Thai:** 1400 (VI) – **Bengali:** 1430 (VIII) – **Hindi:** 1500 (VIII) – **Urdu:** 1530 (VIII) – **Swahili:** 1600 (VIII) – **Malay:** 1145 (VI) – **Korean:** 0900 (VII), 2145 (VII) – **Japanese:** 0100 (II), 0900 (IV).

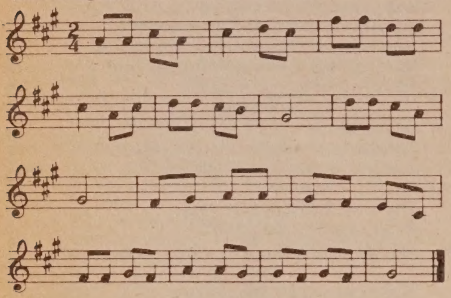
DX-PRGRS: "Tokyo Calling" (English): Sun 0810 (III), 1000 (V), 1010 (Gen Sce), 1125 (VI), 1410 (Gen. Sce), 1840 (III), 2025 (IX), 2310 (Gen Sce); Mon: 0015 (I), 0200 (II), 1640 (VI) – **DX-Corner** German): Sat 0710, 1810 (III).

ANN: Home Service: The call sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes an announcement, "NHK" is made at the end of the news prgr's of both 1st network and of FM network. It also comes before the call sign of 2nd network.

Foreign Service: English: "This is Radio Japan, the Overseas Broadcasting Service of NHK. We are broadcasting to . . . (target area)" – **French:** "Ici Radio Japon . . . (target area)" – **German:** "Hier ist Tokyo, der Japanische Rundfunk . . . (target area)" – **Italian:** "Buon giorno, sign. radioascoltatori Italiana; Qui Radio Giappone – Reparto Servizio Internazionale de NHK . . ." – **Spanish:** "Aqui Radio Japón" – **Portuguese:** "Está ouvindo a Radio Japáo . . ." – **Indonesian:** "Inilah Radio Djepand, siaran international dari NHK di Tokio . . ." – **INT-SIG: Home Service:** Both on the 1st and 2nd network, a musical sign is beamed on a celesta before commencing broadcast. No interval signal is used since both the 1st and 2nd networks are continuously on the air – **Foreign Service:** Opening music of Reg. Sce's "Sakura".



Interval signal music "Kazoe Uta".



PUB: In Japanese only: Graph: NHK (monthly), Hoso Bunka or Broadcast Culture (monthly), NHK Year Book (annual). In English and others: Radio Japan News (monthly in E, J, Sp and others), This is NHK (annual in E), NHK Technical Monograph (irr. in E), NHK Laboratories Note (irr. in E). The prgr. schedules for Overseas Service (R. Japan), Studies of Broadcasting (annual in E) – **V.** by QSL-card and letter – **FI:** In accordance with the Broadcast Law. NHK's operations are financed by the revenue from subscriptions fee.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN (Minporen)

ADDR: 5fl Bungei Shunju Bldg, 3, Kioi-cho, Chiyodaku, Tokyo 102. **Te:** 265-7841. **Cable:** Minporen.
L.P: Pres: Yosoji Kobayashi. Exec.Dir: K. Sugiyama. Secr.Gen: N. Izumi.
Mediumwaves: Call: JO-

Call	kHz	kW	Call	kHz	kW
1) CR	560	20d	24) CF	°1110	5d
2) DF	°720	5d	25) BW	1110	1
3) IL	720	1	26) MR	°1110	5d
4) JF	°740	5d	27) AF	°1120	5
5) LR	°740	5d	28) DR	°1120	5
6) RR	°740	5	29) QR	°1130	100
7) XR	°780	5	25) BR	°1140	20
8) SO	°860	1	26) MO	1200	1d
9) QF	860	3d	8) SW	1200	1
10) PR	°860	5d	30) FO	1200	1
9) HE	860	3d	31) BF	°1200	5
11) HF	°900	5d	32) YF	°1200	1
12) ZR	°900	5	33) OR	°1210	50
9) HO	900	5d	20) UR	°1230	5
13) EF	°920	5d	34) GR	°1230	5d
21)	920	1	35) LF	°1240	100
14) TR	°940	3d	18a)TF	°1250	5
15) PF	°940	5d	37) IR	°1260	20
16) KR	°950	100	30) FR	°1270	50
17) NR	°1010	50	9) HW	1280	5
18) FF	°1020	1	38) JR	°1280	5
19) AR	°1050	50	9) HR	°1290	50
20) MF	1100	1	39) UF	°1310	50
21) NF	1100	1	40) SF	°1330	50
13) EL	1100	1	41) ER	°1350	20
22) GF	°1100	1	42) VR	°1400	5d
8) SR	1100	1	9) QL	1400	5d
23) WO	1100	1	8) IF	°1410	50

Call	kHz	kW	Call	kHz	kW
43) RF	°1420	30	32) YL	1460	1
34) GO	°1430	1	20) UO	1460	1
44) VF	°1430	3d	9) TL	1490	1
45) ZF	°1430	1d	47) YR	°1490	5
36) WF	°1440	50	28) DO	1530	1
9) QM	1450	5	48) XF	°1530	1
46) KF	°1450	5	27) AM	1530	1
23) WR	°1460	1			

°)=key-station, d=directional.
low power st's less 1kW not mentioned.

1) R. Kansai Ltd, 1-1-6 Yukisaiwai-cho, Suma-ku, Kobe, Hyogo 654 – Pres: T. Masuda. St.Mgr: I. Washio. Chief Eng: M. Takami – 2000-1600. **N:** 2215, 0250, 0542, 0635, 0800, 0900, 1345. **V.** by QSL-card. Rec. acc.
2) Iwate Broadc. Co, 6-1 Shikecho, Morioka-shi, Iwate 020 – Pres: T. Ota. Dir.Tec: S. Yamamoto – 24h.
3) Kyushu-Asahi Broadc. Co, Kokura Bldg, 2-7-8 Kyomachi, Kokura-ku, Kitakyushu-shi, Fukuoka 802 – Pres: J. Yawata. Dir.Tec: M. Inami. 24h. **N:** Every h on the h 2100-1000, 1300. **V.** by QSL-card. Rec. acc. (JOIF Fukuoka, JOIL Kitakyushu).
4) Yamanashi Broadc. Syst. Inc, Yamanashi Culture Centre, 2-6 Kitaguchi, Kofushi, Yamanashi 400 – Chmn: J. Noguchi. Pres: E. Noguchi – 2030-1540. **V.** by QSL-card.
5) Kita-Nihon Broadc. Co, 10-18 Ushijima, Toyama-shi, Toyama 930 – Pres: R. Yokoyama – 2000-1700. **V.** by QSL-card.
6) Ryukyu Broadc. Co, 2-3-1 Kumochi, Nahashi, Okinawa 900 – 24h. **N:** Every h on the h. **V.** by QSL-card.
7) R. Okinawa Kabushiki kaisha. 2-22-1 Senzaki, Nahashi, Okinawa 0900-2000-1500. **V.** rarely by letter.
8) Shin-Etsu Broadc. Co, 1-21-24 Yoshida, Nagano-shi, Nagano 380 – Pres: T. Ishira. Dir.Tec: K. Matsuyama – 24h. **N:** On the h at 2100-0600 & 0800, 0930, 1255, 1350 (JOSO Matsumoto, JOSR Nagano, JOSW Lida).
9) Hokkaido Broadc. Co, North 1, West 5, Chuo-ku, Sapporo, Hokkaido 060 – Pres: H. Akiyama. St.Mgr: S. Takenouchi. Dir.Tec: K. Hamaya – 24h. **N:** 2055 and hourly until 0655, 1350. **V.** by QSL-card (JOHR Sapporo, JOHO Hakodate, JOHE Asahigawa, JOHW Obihiro, JOQF Muroran, JOQL Kishiro, JOQM Abashiri, JOTL Nayoro).
10) Fukui Broadc. Co, 3-4-1 Oote, Fukui-shi, Fukui 910 – Pres: S. Kato. Dir.Gen: Y. Toshida. **V.** by QSL-card.
11) Broadc. Syst. of San-in, Kaiseidori, Yonago-shi Tottori 680 – Chmn: H. Sakaguchi. Pres: J. Aoto – 2035-1505. **V.** by QSL-card.
12) Kochi Broadc. Co. Ltd, 3-2-15, Honcho, Kochi-shi, Kochi 780 – Chmn: G. Fuduka. Pres: S. Nishimoto – 24h.
13) Yamagata Broadc. Co, Yamagata Shimbun Hoso Kaikan, Hotago-cho, Yamagata-shi, Yamagata 990 – Pres: Y. Hattori – 2000-1145. **V.** Rep. not wanted (JOEF Yamagata, JOEL Tsuruoka).
14) Akita Broadc. Syst, Sanno Oodori, Akita-shi, Akita 010 – Chmn: G. Kurata. Pres: T. Nakatsuka – 2100-1555. **V.** by QSL-card.
15) R. Yamaguchi, Koenku, Tokuyama, Yamaguchi, 745 – Pres: K. Nomura – 2030-1500. **V.** by QSL-card.
16) Tokyo Broadc. Syst, Main Office: 3-6 Akasaka 5-chome, Minato-ku, Tokyo 107. **Te:** (03)584-3111. **Cable:** JOKR – Chmn: J. Imamichi. Pres: H. Suwa. Dir. in Charge: (R): H. Okano. Dir.Tec: K. Takagaki – 24h. **N:** 5 min's every h. **DX-prgrs:** "BCL Jockey" (in Japanese): Mon-Fri 0645-0700. **V.** by QSL-card. Rec. acc. Rp.
17) Asahi Broadc. Corp, 2 Minami 2-chome, Ooyodo-cho, Ooyodo-ku, Osaka 531. **Te:** (06)458-5321. **Cable:** Asahihoso – Pres: K. Hara. Dir.Tec: T. Moriya – 2000-1800. **N:** every h on the h 2000-2400, 0200-0900, 1300, 1400. **V.** by QSL-card.
18) Far East Broadc. Co. P.O. Box 55, Naha-shi, Okinawaken, 90091. Field Dir: R.L. Johnson. Asst.Dir: R. Root. Dir.Tec: H. Scott. 24h (exc. Mon 2000-1500) in English to the American Servicemen (many prgrs submitted by e.g. HCJB, WYFR). **Ann:** "1020 Radio, Naha, Okinawa". **V.** rarely by QSL-card.
18a) Kyokuto Hoso Kakushikikaisha, 40 Kowan, Urasoe-shi, Okinawa 901 – 24h.
19) Chubu-Nippon Broadc. Co, 4-15 Shin-sakae-machi, Naka-ku, Nagoya, Aichi 460. **Te:** 241-811 – Chmn: K. Sasabe. Pres: G. Kojima. Dir.Tec: S. Maeda – 24h. **N:**

Hourly 2100-0500, 0700-0900 & 1300, 1700. **V.** by QSL-card.
20) Nagasaki Broadc. Co. 1-35 Kami-cho, Nagasaki-shi, Nagasaki 850 – Pres: Y. Suzuki – 24h. **V.** by QSL-card. (JOMF Sasebo, JOUO Saga, JOUR Nagasaki).
21) Miyazaki R. & TV, 858 Shimo-Kitakata-cho, Miyazaki, 880 – Pres: Y. Hirata – 2030-1505. **V.** by QSL-card.
22) Oita Broadc. Co, 1315-5 Imazuru, Oita 870 – Pres: Y. Hoshino – 2030-1500. **V.** by QSL-card.
23) R. Fukushima Co, 11-1 Sakaecho, Fukushima-shi, Fukushima 960 – Chmn: T. Tobishima. Pres: R. Kobari. Vice-Pres: Y. Honda – 2000-1505. **N:** 2150, 2255, 2355, 0055, 0205, 0250, 0455, 0555, 0615, 0805, 0920, 1320. **V.** by QSL-card (JOWO Kooriyama, JOWR Fukushima).
24) Minami-Nihon Broadc. Co, 5-25 Korai-cho, Kagoshima 890 – Chmn: S. Hatanaka – 2350-1355. **V.** by QSL-card.
25) Kinki Broadc. Syst, Egawa-noboru, Karasumaru-dori, Nakakyo-ku, Kyoto 604 – Chmn: K. Shiraishi. Pres: C. Ikenahi – 24h. **N:** Every 10 min's to the hour. **V.** by QSL-card.
26) MR Organization, 3-2-1 Honda-cho, Kanazawa-shi, Ishikawa 920 – Chmn: Y. Miyashita. Pres: I. Saga – 2000-1800(Sat/Sun 1700) – **V.** by QSL-card. (JOMR Kanazawa, JOMO Nanao).
27) Nankai Broadc. Co, 1135-1 Doogo, Matsuyama, Ehime 790 – Chmn: Y. Yamanaka. Pres: Y. Hirata. St.Mgr: S. Tanaka. Chief Eng: E. Onishi – 2050-1500. **V.** Rep. not wanted.
28) Broadc. System of Niigata. 3-18 Kawagishi-cho, Niigata-shi, Niigata 951 – Chmn: J. Nishimura. Pres: S. Shimuzu – 24h. **N:** hourly 2150-0750 & 0900, 0920, 1250. **V.** by QSL-card.
29) Nihon Cultural Broadc. Co, 1-5 Wakaba, Shinjuku-ku, Tokyo 160 – Pres: S. Tomoda – 24h. **N:** 2225, 0000, 0455, 0555, 0700, 0750, 0850, 0950, 1055, 1145, 1250, 1350, 1650, 1800. **V.** by QSL-card.
30) R.K.B. Mainichi Broadc. Co, Mainichi-Saibu-Kaikan, 4-1-10 Watanave Dori, Chiyuouku, Fukuoka 803 – Chmn: M. Nakajima. Pres: K. Kobajushi. Gen.Mgr: K. Kimoto. Dir.Tec: S. Karikita – 24h.
31) Kumamoto Broadc. Corp, 30 Yamazaki-cho, Kumamoto-shi, Kumamoto 860 – Pres: R. Fukami. Chmn: T. Izu – 2350-0440, 0830-1630. **V.** by QSL-card.
32) Ibaraki Broadc. Syst, 2-14 Kitami-cho, Mito-shi, Ibaraki 310 – Pres: S. Shirasawa. Dir.Tec: H. Kurobe – 2025-1600. **N:** 2025, 2050, 2150, 2210, 2250, 2355, 0050, 0155, 0300, 0450, 0550, 0655, 0755, 0920, 1255, 1350. **V.** by QSL-card.
33) Mainichi Broadc. Syst, 53 Funadaiku-cho, Dojima, Kita-ku, Osaka 530. Broadc-Centre: 1-1 Senrioka-kita, Suita-shi 565. **Te:** (06)878-5141. **Cable:** Mainichihoso – Pres: S. Takahashi. Dir.Tec: J. Tanabe – 24h. **N:** every h on the h 2100-0700, 0900, 1400. **V.** by QSL-card. Rec. acc.
34) Aomori Broadc. Co, 72 Fukuda, Matsumori, Aomori-shi, Aomori 030 – Chmn: S. Takeuchi. Pres: S. Onuma. Dir.Tec: H. Tomura – 24h. **N:** 2100, 2200, 2300, 0200, 0300, 0400, 0500, 0900, 1255. **V.** by QSL-card.
35) Nippon Broadc. Syst, Inc, 1-7 Yurakucho, Chiyoda-ku, Tokyo 100 – Chmn: N. Shikanai. Pres: T. Ishida – 24h. **N, Wrp:** 2330, 0030, 0130, 0330, 0530, 0630, 0730, 0930, 1130, 1230, 1330, 1430, 1530, 1730. **V.** by QSL-card.
36) Sapporo TV Broadc. Co. 11, Nishi 1-chome, Minami-1-jo, Sapporo, Hokkaido 060 – Pres: T. Yamamoto – 2000-1600. **V.** by QSL-card.
37) Tohoku Broadc. Co, 26-1, Kasumi-cho, Yagiyama, Sendai-shi, Miyagi 980 – Pres: J. Hayasaka – 24h. **V.** by QSL-card.
38) Shikoku Broadc. Corp. 1-32 Saiwai-cho, Tokushima-shi, Tokushima 770 – Chmn: K. Tsutsui. Pres: M. Matsumura – 24h. **V.** by QSL-card.
39) Osaka Broadc. Corp, 27 Umeda-cho, Kita-ku, Osaka 530 – Pres: K. Kobayashi. St.Mgr: J. Oshima. Dir.Tec: T. Matsuda – 24h. **V.** by letter to Overs. Listeners. (Also owns KZOO Hawaii).
40) Tokai Broadc. Co, 7 Higashi-shin-cho, Higashi-ku, Nagoya, Aichi 561 – Pres: M. Minami – 24h. **V.** by QSL-card.
41) Chugoku Broadc. Co. Ltd, 21 Motomachi, Hiroshima 730. **Te:** 21-4191 – Pres: I. Iwasaki. Dir.Tec: S. Ikeda. 24h. (exc. Mon 2000-1500). **N:** on the h.
42) Shizouka Broadc. Syst, 609 Ishida, Shizouka-shi, Shizouka 420 – Chmn: Y. Komuratani. Pres: M. Oishi. Dir.Tec: H. Yamamoto – 24h. **N:** 2025, 2150, 2250, 2355, 0050, 0155, 0300, 0550, 0655, 0755, 0920, 1255, 1350, 1455. **V.** by QSL-card.
43) R. Kanto, 10 Oimatsu-cho, Nishi-ku, Yokohama-shi, Kanagawa 220 – Pres: K. Tooyama. Man.Dir: H. Komamura – 24h. **N:** hourly 2100-0700 & 0820, 1030, 0030. **V.** by QSL-card.
44) Wakayama Broadc. Corp, 15 Yoriai-cho, Wakayama-shi, Wakayama 640 – Pres: T. Seki – 2030-1530. **V.** by QSL-card.
45) Gifu Broadc. Syst, 9 Imakomachi, Gifu-shi, Gifu 500 – Chmn: J. Takahashi. Pres: M. Sugiyama. **V.** by QSL-card.
46) Nishi-Nippon Broadc. Co, 8-15 Marounouchi, Takamatsu-shi, Kagawa 760 – Chmn: T. Hirai. Man.Dir: Z. Hirai. Dir.Tec: T. Mitsuoka – 24h. **V.** by QSL-card.
47) Sanyo Broadc. Co, 2-1-3 Marunouchi, Okayama-shi, Okayama 700 – Pres: M. Tatsumi – 24h. **V.** by QSL-card.
48) R. Tochigi Co, 12-11 Hon-cho, Utsunomiya-shi, Tochigi 320 – Pres: Y. Fukushima – 2030-1400. **V.** by QSL-card.

49) **Nihon Shortwave Broadc. Co. Ltd.**

Call	kHz	kW	Prgr.	Call	kHz	kW	Prgr.
JOZ5	3945	10	II	JOZ6	6115	10d	II
JOZ	3925	50	I	JOZ3	9595	50	I
JOZ4	*3925	10d	I	JOZ7	9760	10	II
JOZ2	6055	50	I				

*) Sapporo; others Chiba (Tokyo).

ADDR: 1-9-15, Akasaka, Minatoku, Tokyo. **Te:** 583-8151. Pres: S. Ando. Chief Eng: K. Sudo. Chief Eng: K. Sudo.
1st Prgr: 2030-1615(Sun 1555).
N: 2230, 0305, 0830, 1130.
2nd Prgr: 2300-0745. **N:** 2330, 0335.
L.L: "Let's learn Japanese" (presented in English): Mon-Fri 1045-1100 on 1st Prgr.
DX-Prgrs (on Prgr. 1): "BCL Scramble" (in Japanese): Mon-Fri 0015-0030. "English BCL" (in English/Japanese): Mon. 0000-0015. "BCL World Tam Tam" (in Japanese): Sat 0000-0030.
"Tokyo Forum" (in English) Mon-Sat 0630-0715.
ANN: "Okikino hosowa Nihon Tampa Hoso desu" or "Kochirawa Nihon Tampa Hoso desu" or "NSB".
INT-SIG: Slow tempo chime with Japanese instrument "Koto" at sign on and off – **V.** by QSL-card. Rp.

COMMERCIAL FM STATIONS

(Japanese FM-channels: 76.90MHz).

Call	MHz	kW
1) JOAU	80.0	10
2) JOCU	80.7	10
3) JOBU	85.1	10
4) JODU	80.7	3

Tokyo FM-Broadc. Co, Tokyo.
Aichi Music FM Broadc. Co, Nagoya.
Osaka FM Broadc. Co, Osaka.
Fukuoka FM Broadc. Co, Fukuoka.
1) Kasumigaseki 3-2-5, Chiyodaku, Tokyo 100 – Pres: K. Ohno, 2100-1900. **V.** by QSL-card.
2) 10-19, Sakae 2-chome, Nakaku, Nagoya, Aichi 460 – Pres: S. Honda. 2200-1800. **V.** by QSL-card.
3) Nakanoshima 3-3, Kitaku, Osaka 530 – Pres: S. Ichikawa. 2100-1900. **V.** by QSL-card.
4) Watanabedori 2-1-82, Fukuoka 810 – Pres: I. Kiyomi. 2200-1715. **V.** by QSL-card.

FAR EAST NETWORK (AFRTS)

The network serves the members of the US Forces serving in Japan – Authority: The stations in Japan broadcast by authority of the Commander, US Forces, Japan in cooperation with the Japanese Radio Regulatory Bureau. Stations are linked by land line and tropo scatter and operated 24 hours a day.
ADDR: Headquarters, 6120th Broadcasting Squadron, APO San Francisco 96328. **Te:** Tokyo 222-3151.
L.P: Commander: Major Robert W. Groom, USAF; Operations Officer: Captain John E. Peters, USAF; Director of Engineering: H. Yaskal.

STATIONS: Shortwave (G.C: 139.73E/35.46N).

Location	kHz	kW	Location	kHz	kW
Naha	650	10	Misawa	1580	0.25
Tokyo	810	50	Iwakuni	1580	1
Sasebo	1570	0.25			

Okinawa-FM 89.1MHz 6kW.

Shortwaves (Tokyo)*

3910kHz	24h	10kW	11750kHz	24h	10kW
6155kHz	24h	10kW	15260kHz	24h	10kW

*Power and direction vary to meet point to point commitments for rebroadcast from AFRTS st's in Japan, Korea, Okinawa, Taiwan; o) reported on 11730kHz.
N: Every h on the h.
Local prgrs: D. 0605-0830, 1115-1200, 1505-1800: Sat 0805-0900. Okinawa local prgrs: Mon-Fri 0100-0300, 0605-0900, 1505-1700, 2000-2200; Sat 0005-0400, 0705-1000, 1215-1300, 1700-1900, 2030-2200; Sun 0005-0200, 0600-0900, 1000-1200, 1400-1900, 2100-2200.
All music prgr. separately 2100-1400 on 3910, 6155kHz.
ANN: "This is the Far East Network, 810 (1570 etc.) on your dial, Tokyo (Misawa etc.)" (same for shortwave with proper frequency indicator).
ID: (every h and occasionally half h) – **V.** by QSL-card –
PUB: Master schedule quarterly.

VOICE OF AMERICA RADIO STATION IN OKINAWA

ADDR: Voice of America, Washington DC 20547, USA.
1×1000kW MW-tr, 1×100kW and 2×35kW SW-tr's.
STATIONS: Mediumwave: Okinawa 1178kHz 1000kW 1100-1600. **Shortwave:** Okinawa 35/100kW (G.C: 128.09E/ 26.44N): 2130-0100, 1000-1600.

Nov-Feb		Mar-Apr	
kHz	**Times**	**kHz**	**Times**
1178	1100-1600	1178	1100-1600
6010	1100-1500	6010	1100-1500
6075	2130-2200	6075	2130-2200
7160	2230-2300	7160	2230-2300
7165	1100-1500	7165	1100-1500
7255	1000-1400	7255	1000-1600
	2200-0030		2130-0030
7265	1400-1600	9560	2200-0030
9560	2200-0030		

D.PRGR: Mediumwave: 1100-1200 English, 1200-1330 Chinese, 1330-1400 Korean, 1400-1600 Chinese – **Shortwave:** See USA.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America, Washington DC – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within program – **V.** by QSL-card. Reports required. No Rp.

NB: In accordance with the terms of the 1972 Okinawa Reversion Treaty between the United States and Japan, the VOA will terminate its relay operation on Okinawa by May 15, 1977. The VOA is undertaking studies to identify possible sites to replace the Okinawa relay facility and to improve overall Voice of America transmission capability in East Asia.

KOREA
(Democratic People's Republic)

L.T: GMT+9h – **Pr.L:** Korean.

KOREAN CENTRAL BROADCASTING STATION (Choson Chungan Pangsong)

ADDR: Korean Central Broadcasting Committee, Pyongyang.

STATIONS

Mediumwaves: Home Service

kHz	kHz	kHz	kHz	kHz	kHz	kHz
565	725	765	785	810	915	1125
635						

Shortwaves: Home Service

kHz	kHz	kHz	kHz	kHz	kHz
2850	3015	4270	6290	6600	11350

Local Stations	kHz	Local Stations	kHz
Chongjin	695	Hyesan	1285
Hyesan	733	Kanggye	1345
Kaesong	813	Hyesan	2297
Sinuiju	860	Sariwon	2670
Wonsan	826	Chongjin	2695
Sariwon	930	Sinuiju	2745
Chongjin	987	Pyongsong	2765
Hamhung	1000	Hanhung	2775
Haeju	1080	Kanggye	4273
Chongjin	1145		

HOME SCE in Korean: 1958-1800 on all freqs exc: **635kHz:** 1958-0300, 0400-0900, 1500-1800; **3015kHz:** 1500-1800; **6600kHz:** 1958-0830, 1500-1800; **6290kHz:** 1958-0830; **11350kHz:** 1958-1050.
Local Prgrs: 2230-2300, 0430-0520, 1110-1120. Other times rel. Ce.Broadc.St.
On 2765kHz: Only on air during local sces.
On 4273kHz: 2230-2300, 0430-0520, 0900-1800.
N.B: Most local sts often vary their freqs.
ANN: "Yokineun Choson Chungsan Pangsong nida".

RADIO PYONGYANG

ADDR: Korean Central Broadcasting Committee, Pyongyang.

STATIONS

kHz	kHz	kHz	kHz	kHz	kHz
625	655	737	850	3320	6400
645	685	800	955	6250	

HOME SCE in Korean (and for Koreans living in South Korea and Japan): 1958-1800 on 735/800/850/**3320**kHz; 1958-1500, 1545-1800 on 625/645/655/685/**6400**kHz; 1030-1500, 1545-1800 on 955kHz; 1958-0930, 1500-1800 on **6250**kHz.
Prgr. for Koreans living in Japan (W only): 2130-2200, 1030-1100; Sun 1030-1100 relaying "Voice of the Revolutionary Party for Reunification".
ANN: "Yokineun Pyongyang nida" or "Pyongyang Pangsong mida". Note: This st. is a different sce from Korean Central Broadc. Station.

FOREIGN SERVICE (R. Pyongyang)

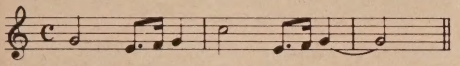
I=Near and Mid. East/Europe; II=So. Ea. Asia; III=Latin America/No. America; IV=Europe; V=Far East; VI=Japan.
STATIONS *=SSB.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
635	*3890	6575	9420	9977	12070	15630
*3015	6338	6770	9510	11535	12075	
*3560	6540	7580	9820	11780	15650	

English	Area	kHz
0500-0600	I	3560,9420,9977
0600-0800	II	3560,9820,12075
1000-1100	III	3560,9420,11535
1200-1400	II	3560,7580,9420,9510
1800-2000	I	3560,6338,9977
2000-2200	IV	3890,6575,9420
2300-2400	II	3560,11535,15630
French		
1400-1600	II	3890,6770,9510,11535
1900-2000	IV	3890,6575,9420
2000-2200	I	3560,6338,9977
Arabic		
0500-0600	I	3890,12075,15630
1700-1800	I	3560,6338,9977
Japanese		
0300-0400	VI	635,3560,9820,11780
0900-1500	VI	635,3015,6540
1100-1200	VI	3890,6770,11535
Korean		
0300-0400	I	3890,9420,15630
0700-0800	II	3890,11535,15630
0800-0900	III	3560,9420,11535
1500-1600	II	3560,7580,9420
1600-1700	I	3560,6338,9977
1700-1800	IV	3890,6575,9420
2200-2300	III	3560,9420,15650
Russian		
1100-1200	V	3560,7580,9420

Russian	Area	kHz
1400-1500	V	3560,7580,9420
1600-1700	IV	3890,6575,9420
1800-1900	IV	3890,6575,9420
Spanish		
0400-0500	III	3560,11535,15535
0900-1000	III	3560,9420,11535
Standard Chinese		
2300-2400	II	3890,6770,12070
0600-0700	II	3890,11535,15630
1200-1400	II/V	3890,6770,11535

ANN: E: "This is the Korean Central Broadc. Station in Pyongyang" or "This is Radio Pyongyang".



V. by QSL-card – **PUB:** "Radio Pyongyang" upon request.

KOREA (Republic of)

L.T: GMT+9h – **Pr.L:** Korean – **E.C:** a/c 60, 100V.

MINISTRY OF COMMUNICATIONS
Office of Regulatory

Jung-gu, Seoul. **Cable:** Offiradio.
L.P: Dir.Gen: Hwang-Kun Oh.

KOREAN BROADCASTING SYSTEM (Public)

ADDR: 1-799, Yeouido-dong, Yeongdeungpo-gu, Seoul. **Te:** 23-0631. **Telex:** KBS KA28220. **Cable:** KBS, Seoul.
L.P: Pres: Kyung-Moh Hong. Mgr. Engineering Div. & ABU/EBU Technical Liaison Officer: Jae-Geuk Song, Mgr. Foreign rel. Div and ABU/EBU Liaison Officer: Bae-Sik Park.

STATIONS: Mediumwaves: Call: HL

Location	Call	kHz	kW	Location	Call	kHz	kW
Hongseong	CZ	540	1	Daejeon	KI	920	10
Jeomchon	SC	540	1	Geochang	KW	920	1
Jangheung	SM	540	1	Buyeo	DB	930	10
Jangsu	SN	540	1	Hadong	SU	930	0.25
Jinju	CJ	560	1	Masan	KD	940	1
Pyeong-chang	CC	560	1	Andong	CR	960	10
				Jeju	KS	960	10
Jeonju	KF	570	10	Gimje	SR	970	500
Yeongweol	CV	570	1	Hwacheon	CG	1030	1
Gangneung	KR	575	10	Cheongju	KQ	1060	10
Yeongju	AG	590	10	Chungju	CH	1090	1
Namyang	CA	600	500	Samcheog	CI	1120	1
Seogwipo	CF	620	1	Weonju	CW	1150	10
Yeongdong	AY	620	1	Sogcho	CS	1170	50
Hwangji	SJ	620	0.25	Jeongseon	SW	1210	0.25
Yeosu	CY	630	1	Jecheon	CD	1240	1
Inje	SE	630	1	Namweon	KL	1270	1
Boseong	SL	650	1	Gurye	SI	1300	1
Chuncheon	KM	660	10	Ulreung	CU	1320	0.25
Seoul	KA	710	500	Muju	KO	1370	0.25
Daegu	KG	740	100	Uljin	SV	1380	1
Suweon	SA	750	500	Cheolweon	CO	1450	10
Yanggu	SY	850	1	Hamyang	SH	1460	1
Mogpo	KN	860	10	Gimcheon	SK	1500	1
Gwangju	KH	880	50	Suncheon	KZ	1540	0.25
Busan	KB	890	100	**FM:** 32.6MHz (rep.)			
Pohang	CP	910	1				

Shortwaves: 1) Seoul (G.C: 126.55E/37.33N) – 2) Gimje (1×250kW) – 3) Suweon (1×10kW, 2×50kW) (G.C; 127.01E/37.16N) – 4) Daegu (1×10kW).

kHz	kW	kHz	kW	kHz	kW	
4) 2510	10	3) 6135	10	2) 9600	250	3) 11860 50
1) 3918	5	7150	10	3) 9640	50	

HOME SCE: Channel I: 2000-1800 on 710/2510/3918kHz; **Channel II:** 1800-1500 on 600kHz. **Channel III:** On 970kHz: 20 hrs. **Channel IV:** On 750kHz: 20 hrs.

FOREIGN SERVICE

I=Japanese Sce; II=European Sce; III=S.E. Asian Sce; IV=Latin American Sce; V=American Sce; VI=Korean Compatriots Sce.

Arabic	Area	kHz
1230-1245	II	7150
		9600
		9640
		11860
English		
0200-0230	V	7150
		9600
		9640
0400-0430	V	11860
1000-1030	V/IV	7150
1530-1600	V	9640
1800-1830	V	11860
1130-1200	II/III	600
		7150
		9600
		9640
		11860
2000-2030	II/III	940
		7150
		9600
		9640
		11860
2300-2330	III	7150
		9600
		9640
French		
1300-1330	II	7150
		9600
		9640
1930-2000	II	11860
2230-2300	III	7150
		9600
		9640
Indonesian		
0800-0830	III	7150
		9600
1400-1530	III	9640
Japanese:		
2130-2230	I	
0100-0200	I	
		890
0300-0400	I	970
0600-0700	I	6135
0900-1000	I	7150
1100-1200	I	9640
1230-1330	I	
1500-1600	I	

Korean	Area	kHz
2100-2130	VI	890
2230-2300	VI	970
1600-1630	VI/V	6135
		7150
0430-0500	V	9640
0930-1000	V/IV	7150
		9600
		9640
1830-1900	V	11860
0030-0100	II	7150
		9600
		9640
0230-0300	II	11860
1200-1230	II	970
		7150
		9600
		11860
2030-2100	II	7150
		9600
		9640
		11860
2200-2230	III	7150
		9600
		9640
Russian		
0000-0030	II	7150
		9600
		9640
2100-2130	II	11860
Spanish		
1030-1100	V/IV	7150
		9640
		11860
2330-2400	II	7150
		9600
		9640
		11860
Standard Chinese		
0830-0900	III	7150
		9600
		9640
0900-0930	III	940
1430-1500	III	7150
		9600
		9640
2000-2030	III	940

N. in English: 1000,1130,1530,1800,2000,2300,0200,0400.

ANN: Korean "Yeo reo bun, an-nyeong ha sim hi gga. Ji geum bu teo sam sib bun dongan Yeoung-eo bang-song eul bonae deu ri get sseum nida". English: "This is Radio Korea, the Overseas Sce. of the Korean Broadc. System, coming to you in English from Seoul, the capital of the Republic of Korea" – **INT-SIG:** Foreign Sce: Korean Folk music played as "Signal Music for Foreign Broadcasting" with orchestra. **V.** by QSL-card – **PUB:** Prgr. schedules, pennants, folders, KBS Handbook (English), KBS (Illustrated), KBS Information Sce. "Korean Radio & TV" (English, yearly) free to listeners.

OTHER STATIONS: Call: HL - -

Call	kHz	kW	St. and h. of tr.
1) KC	640	50	Dongyang Broadc. Co. Seoul: 2000-1700
2) AS	680	10	Seo Hae Broadc. Co: 2000-1600
5) CQ	760	10	MBC Daejeon: 2000-1700
3) AJ	770	10	MBC Jeju: 2000-1600
20) AN	770	10	MBC Chuncheon: 2000-1500
4) KJ	790	50	Dong A Broadc. Syst, Seoul: 2000-1700
5) CT	810	20	MBC Daegu: 2000-1700
5) CN	820	20	MBC Gwangju: 2000-1700
6) KY	840	50	CBS Seoul: 1900-1700
7) AU	850	10	MBC Ulsan: 2000-1530
5) KV	900	50	MBC Seoul: 2000-1700
8) AP	990	10	MBC Masan: 2000-1600
6) CL	1000	10	CBS Gwangju: 2000-1700
9) AW	1020	10	MBC Andong: 2000-1600
10) AT	1080	10	MBC Yeosu: 2000-1500

Call	kHz	kW	St. and h. of tr.
24) AV	1110	10	MBC Pohang: 2000-1530
5) CX	1140	10	MBC Jeonju: 2000-1700
11) KU	1160	20	MBC Busan: 2000-1700
12) KX	1190	50	Team Radio: 2030-0100 (Sun 0200), 0700-1600
13) AL	1220	10	Jeonil Broadc. Sce, Gwangju: 2000-1700
6) KT	1250	10	CBS Daegu: 2000-1600
14) AX	1290	1	MBC Cheongju: 1900-1600
15) AF	1290	10	MBC Gangneung: 2000-1500
21) SB	1300	10	MBC Weonju: 2000-1500
6) CM	1310	10	CBS Iri: 2000-1530
16) AK	1320	10	MBC Jinju: 2000-1500
17) AO	1330	10	MBC Chungju: 2000-1700
18) AQ	1350	1	MBC Samcheog: 2000-1600
19) AM	1390	10	MBC Mogpo: 2000-1500
6) KP	1400	10	CBS Busan: 2000-1600
23) DA	1570	250	Asia Broadc. Co, Jeju: 2100-1900

Addresses and other information:
2), 3), 5), 7), 8), 9), 10), 12), 13), 14), 15), 16), 17), 18), 19), 20) belong to MBC Network Hankuk Munhea Broadc. Corpo. (Comm.)
1) 58-9 Seosomun-dong, Seodaemun-gu, Seoul – Exec.Dir: Seung Byung Noh. Chief Eng: Byung Sil Kwon. **N:** On the h exc. 2100,0500,1900. Also on FM 89.1MHz. 1kW. **V.** QSL-card. Rp.
2) Juk Seong-Dong 44-2, Gun San – Dir: L. Nam Soo. **V.** by QSL-card.
3) 3 Do-dong 106, Jeju – **V.** by QSL-card. Rep. in English or Japanese.
4) P.O. Box 250, Seoul – Dir.Gen: K. Sang-Man. St.Mgr: L. Dong-Soo. Chief Eng: K. Suck-Mo – **N:** on the h exc. 1000,1400. Also on FM 101.2MHz. **Ann:** "DBS Dong A Bangsong". **V.** by QSL-card. Rep. in English.
5) 22, Jeong-dong, Seodaemun-gu, Seoul – Pres: H.E. Lee, Exec. Man.Dir: T.K. Yun. Man.Dir: Keun-Sook Park. Dir.Tec: H.S. Ahn – 900kHz: 2000-1700. **N:** every h on the h. **Ann:** "Yeogineun Munhwa Bangsong imnida HLKV" – **V.** by QSL-card. Rep. should be sent to resp. st's. Rp.
6) 136-46 Yeonji-dong, Jongro-gu, Seoul – Pres: Sung C. Chun. Adviser: Stanton R. Wilson. Tec.Dir: Young Hwan Park. **N. Wrp:** Every h on the half h 1930-1430. **Ann:** "Yeogineun Gidoggyo Bangsong imnida HLKY" – **V.** by letter. Rec. acc. **F.Pl:** 1kW FM in Seoul.
7) 96-18, Oggyo Dong, Ulsan – Dir: S.S. Choi. **V.** by QSL-card. Rep. in English.
8) Sochong-dong, Masan – Dir: K. Chongskin.
9) 509 Songhyun Dong, Andong – Dir: K. Cheshuan.
10) 794-46 Oodu-ri Dolsan Myeon, Yeocheon-gun, Yeosu.
11) Jugang Dong, Busan – Dir: An Sungsu. FM 88.9MHz. **V.** by QSL-card. Rep. in English.
12) Team Radio, CPO Box 5255, Seoul – St.Mgr: John A. Rathbun. Chief Eng: In Duk Kim – Korean 2030-0100,1100-1230. **English** 0700-1100. Russian: 1230-1400, Mandarin 1400-1545, Mongolian 1545-1600. **Ann:** "This is Far East Broadcasting Sce, HLKX, a ministry of the Evangelical Alliance Mission in Korea" – **V.** by QSL-card or letter. Rec. acc. **Fl:** By contributions and free will offerings.
13) Gunman Ro 1-1, Gwangju.
14) 57-1, Nam Mun Ro, Cheong Ju-Gen – Mgr: L.S. Hoon. Also FM 102.1/94.25MHz – **V.** by letter.
15) Imdang Dong 85/8, Gangneung – Pres: J.Y. Kim.
16) Dongsung Dong, Jinju.
17) 445 Chilum Dong, Chonju – Dir: K. Chimrun.
18) Namyang Lee 17, Samchug – **V.** by letter.
19) 11 1/1-2 ka, Dae Fi Dong, Mogpo – **V.** by QSL-card.
20) 53, 1-Ga. Jungangro, Chuncheon – Gen.Mgr: P.W. Kang. St.Mgr: N.S. Kim. Chief Eng: C.M. Kweon.
21) 1456 Changyang-li, Sogcho-myun, Wonsung-gun, Weonju.
22) Seoul – Prgr. consist mainly of Old Korean Popular Songs to Koreans in Japan and North Korea. **Ann:** "Yeogineum Hui-Mang Ui Meari Bangsong im ni da".
23) CPO Box 3939, Seoul. **Te:** 28-6511. **Cable:** Febcom. Gen.Mgr: Dr. Billy Kim. St.Eng: Myoung Ku Lee. Adm. Coordinator: Jack C. Lentz. **D.Prgr's:** 2100-2325 Korean, 2330-0030 Russian, 0030-0130 Japanese, 0135-0400 Chinese, 0405-0505 Russian, 0900-1030 Chinese, 1035-1105 English. **Ann:** Korean: "HLDA, Asia Bangsong" or "Yeongineun Asia Bangsong im ni da" – **V.** by QSL-card.
24) 719-117 DaeHeung-Dong, Pohang.

KOREA FM BROADCASTING CO. LTD.
ADDR: 33-1 Samseong Dong, Jung Ku, Taegu.
L.P: Gen.Mgr: K. Lee.
STATION: HLCB 89.7MHz 1kW – **Ann:** "Hankuk FM Pansong im ni da".

DEPARTMENT OF DEFENSE
ADDR: Seoul.
STATIONS: 1150kHz(Seoul) – 1240kHz 5kW(Shalwong) – 1270kHz 5kW(Kanghua).
D.PRGR: Relays VOA's Korean prgr. 1315-1530, otherwise own prgr. of Korean Pop Music.

AMERICAN FORCES KOREA NETWORK
ADDR: Headquarters US Army Element, American Forces Korea Network, APO San Francisco 96301 USA. **Te:** 2936495.
L.P: Commanding Officer: Lt.Col. H.A. Myrick. Deputy Capt. (Air Force): Floyd Clark. Chief of Prod: Ed. Masters. Chief of Engineering: G.J. McDonald.
STATIONS: 24h.

	kHz	kW		kHz	kW
Seoul[1]	560	5	Pusan[5]	780	5
Taegu[6]	580	5	Chunchon	1040	1
Munsan-Ni[4]	580	5	Kwangju	1150	0.25
Uijongbu	1160	0.25	Masan	1440	0.05
Tongduchon[2]	1200	1	Chinhae	1510	0.25
Osan[3]	1360	1	Kwangchon	1510	0.05
Wonju	1440	0.25	Pohang	1510	0.25
Kunsan[7]	1440	1			

FM: Seoul[1] 102.7MHz 1kW – Hwaaksan 89.5MHz 0.25kW – Taejon 96.1MHz 0.25kW – Changsan 96.1MHz 0.25kW, Kwangyu 104.7MHz 0.05kW, Kunsan 96.5MHz.
1) "Vagabond"; 2) "Tomahawk"; 3) "Comet"; 4) "Indianhead"; 5) "Homesteader"; 6) "Kilroy"; 7) "Mercury".

N: Every h on the h.
ANN: "This is the American Forces Korea Network". Local identification: "This is R. Vagabond in Seoul", etc – **V.** by QSL-card. Re. to Hqs. AFKN, APO 96301, San Francisco, Calif, USA. Rp.

LAOS
L.T: GMT+7h – **Pr.L:** Lao – **E.C:** a/c 50, 127/220V (no).

NATIONAL RADIO BROADCASTING STATION (Gov.)
ADDR: B.P. 810, Vientiane. **Te:** 2457.
L.P: Tech. Controller: Phieng-Pheng.
STATIONS: (G.C: 102.38E/18.01N) a=Vientiane. N=Network. CR=Central Regional R; I=1st Netw; FS=Foreign Sce.

kHz	kW	N	Times
580	—	CR	2300-0200,0355-0630,1030-1430
640a	10	I	2230-0200,0400-0600,0800-1430
750	—	I	2230-0200,0400-0600,0800-1430
1210	—	CR	2300-0200,0500-0700,1100-1400
3900	—	I	2230-0200,0800-1430
4245	—	}	0030-0200,0400-0600,1000-1430
4650	—		
5160	—		2230-0200,0400-0600,1000-1430
6130a	25	I	2230-0200,0400-0600,0800-1430
6200	—		0030-0200,0400-0600,1000-1430
6210	—		
6987	—	CR	2300-0200,0355-0630,1030-1430
7145	—	FS	2300-0130,0400-0630,1100-1400
7310	—		0030-0200,0400-0600,1000-1430
7385	—	CR	2300-0200,0500-0700,1100-1400
7480	—		0400-0600,1000-1430
8395	—	CR	2300-0200,0400-0600,1000-1430
9630	—		0400-0600

All above reported.
HOME SCE: 1st Netw. in Lao: 2230-0200, 0400-0600, 0800-1430. **N:** 2300, 2330, 0001, 0030, 0400, 0530, 1100, 1130, 1200, 1230, 1400.

ANN: "Thini Wathayu Kachai Sieng Anachak Lao".
INT-SIG: Music on Khène (mouth organ), Solo (instrument of bamboo).

Central Regional Radio Stations: On 120/7384kHz (presumably situated in Seno): 2300-0200, 0500-0700, 1100-1400. On 580/6987/8393kHz (altern. 8175kHz) (Luang Prabang): 2300-0200, 0355-0630, 1030-1430.
Yieng Khouang Provincial Station: 4603/6691kHz: 2300-0100, 0400-0600, 1000-1400.
D.Prgr's in Lao Soung: 2300-2330, 0030-0100, 0500-0600, 1000-1100, 1130-1200, other times Lao.
ANN: "Thini Sathani Withayu Kachai Sieng Heng Sat Khweng Xieng Khouang". E: "This is the Xieng Khouang Province National Broadc. Station".
Oudomsai Provincial Station (inaugurated on 10th April 1976. Frequency unknown).

FOREIGN SERVICE on 7145kHz
Cambodian: 0000-0030, 0500-0530, 1230-1300 – **English** 0100-0130, 0600-0630, 1330-1400 – **French** 0030-0100, 0530-0600, 1300-1330 – **Thai** 2300-2330, 0400-0430, 1130-1200 – **Vietnamese** 2330-2400, 0430-0500, 1200-1230 – **Music** 1100-1130.
V. occasionally by letter.

MACAU (Portuguese China)

L.T: GMT+8h – **Pr.L:** Portuguese, Chinese. **E.C:** a/c 50, 110/220V

EMISSORA DE RADIODIFUSAO DE MACAU (Gov.)

ADDR: Rua Francisco, Xavier Pereira 157-A, Macau. **Te:** 7534. **Cable:** ERM.
STATIONS: 900kHz 10kW; 1200kHz 0.25kW – **FM:** 98.0MHz 1kW.
HOME SCE (on all freqs): Portuguese: 2300-0030, 0500-0630, 1200-1500. **Cantonese:** 0800-1200.
ANN: "Macau, transmite a Emissora de Radiodifusão".

EMISSORA VILA VERDE (Priv. Comm)

ADDR: R. Francisco Xavier Pereira 123, Macau. **Cable:** Vila. **Te:** 8355.
STATIONS: 735kHz 10kW – **FM:** 89.0MHz 5W.
HOME SCE in Chinese: 2300-1600.
Adventist World R.prgrs in Chinese: 0030-0045.
INT-SIG: Chimes.

MALAYSIA (Federation of)

PENINSULAR MALAYSIA

L.T: GMT+7½h – **Pr.L:** Bahasa Malaysia, English, Chinese, Indian – **E.C:** a/c 50, 230/400V (yes).

RADIO TELEVISION MALAYSIA – RTM (Gov.)

ADDR: Dept. of Broadc. Angkasapuri, Kuala Lumpur 22-10. **Te:** 03-202366. **Cable:** Broadcasts.
L.P: Dir.Gen: Abdullah Mohamad. Dep.Dir.Gen.(Programming): Abu Bakar Ahmad. Dep.Dir.Gen.(Engineering): Tham Seng Kit. Dir.Prgr: Zain Mahmood. Dir.N: Luke Ang. Dir.No.Reg: Zainal Alam. Dir.So.Reg: Dom Madzi. Dir.Ea.Reg: Ismail Hashim. Contr.Prgrs. (Radio): Jaafar Kamin. Head Overseas B'cast Sce. (Radio): Idris Ahmad Shah. Head General Sces: Yap Swee Choon.

STATIONS: JB=Johore Bahru; KL=Kuala Lumpur; KB=Kota Bahru; KT=Kuala Trengganu; BP=Batu Pahat.
Languages: BM=Bahasa Malaysia; E=English; C=Chinese; I=Indian.

Location	kHz	kW	L
Ipoh	550	100	BM
JB	570	50	BM
KL	590	200	BM
Batu Melintang	590	10	BM
Kangar/BP	610	10	BM
Kuala Lipis	645	20	BM
Penang	660	10	BM
KB	700	10	BM
KL	720	200	BM/C/I
Ipoh	740	100	BM/E
KT	765	10	BM
Kuantan	810	10	BM
KB	840	10	BM/E
Penang	865	10	BM/E
KL	885	200	BM/E
JB	940	50	BM/E
KT	960	10	BM/E
Malacca	1005	10	BM
Penang	1040	10	BM/C/I
Mersing	1055	10	BM
Capital City	1070	5	BM
Grik	1070	10	BM
Kuantan	1140	10	BM/E
Malacca	1160	10	BM/E
JB	1220	50	BM/C/I
Ipoh	1260	10	BM/C/I
Malacca	1280	10	BM/C/I

FM: 95.0MHz (KL).

Shortwaves (exc. Voice of Malaysia). a) Kuala Lumpur (Kajang) (G.C: 101.46E/03.01N); b) Penang (G.C: 100.19E/05.25N).

kHz	kW	L	Times
4845a	50	BM/I	see below
4985b	10	BM/E	see below
5965a	100	BM	1630-2130(exc. Mon)
6025a	50	BM/C	see below
7110a	10	BM**	
7200b	10	BM	24h
7295b	10	BM/E**	see below
9515a	50	BM**	24h
9665a	50	BM/E**	see below
9710b	10	BM**	24h

HOME SERVICE
Bahasa Malaysia 24h incl. midnight to dawn broadcast: 1630-2130.
N: 1632, 1730, 1930, 2130, 2230, 2330, 0030, 0330, 0600, 0930, 1132, 1230, 1330, 1430, 1530.
Bahasa Malaysia/English: Mon-Fri 2230-0130, 0530-0630, 0930-1630; Sat 2230-0130, 0530-1630; Sun 2230-1630.
N: 2330, 2400, 0100, 0600, 0930, 1030, 1130, 1400, 1530.
Bahasa Malaysia/Chinese: Mon-Fri 2250-0130, 0330-0545, 0830-1630; Sat/Sun 2250-1630.
N: 2300, 2330, 2400, 0030, 0100, 0430, 0515, 0535 and hourly 0930-1530.
Bahasa Malaysia/Indian: Mon-Fri 2130-0130, 0540-0630, 0830-1530; Sat 2130-0330, 0545-1530; Sun 2130-1530.
N: 2130, 2245, 2330, 2400, 0600, 0930, 1115, 1130, 1400, 1515.
Capital City Broadcasts in Bahasa Malaysia on 1070kHz: 2225-0130, 0830-1136.
N: 2230, 2243, 0930, 0945, 1130.
FM Stereo on 95.0MHz: BM/English 0130-0630, 1330-1630.
N: 0330, 0600, 1430, 1530.

OVERSEAS SERVICE (Suara Malaysia)
c) Kota Kinabalu; others Kuala Lumpur.

kHz	kW	kHz	kW	kHz	kW
1475c	600	6175	10	11900	100
6100	100	9750	100	15290	100

Arabic	kHz
1530-1700	15290

English	kHz
0625-0855	9750,15290

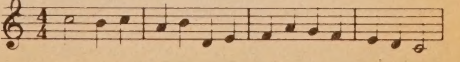
Filipino	kHz
1030-1300	1475

Indonesian	kHz
2200-2400	6100,9750
0900-1600	9750

Mandarin	kHz
1100-1300	11900

Thai	kHz
1315-1445	6100

N. Arabic: 1600, 1655. **English:** 0630, 0830. **Indonesian:** 2245, 2345, 0930, 1130, 1330, 1530. **Mandarin:** 1130, 1230. **Thai:** 1315, 1415.
ANN: Home Sce: BM "Inilah R. Malaysia". Overs.Sce: "Inilah Suara Malaysia". E: "This is the Voice of Malaysia"
INT-SIG: First bar of Nat. Anthem "Negara Ku" (Chimes).



V. by QSL-card. Reports to P.O. Box 1074, Kuala Lumpur. Rec. acc – **F.PL:** a number of SW/MW trs by 1977.

BBC FAR EASTERN RELAY

Shortwaves: 4×250, 6×100kW trs.

STATIONS (G.C: 103.48E/01.32N): 100/250kW.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3915	6065	7120	9580	9725	11910	15310
6010	6080	7180	9590	9740	11955	15485
6050	6195	9570	9670	11750	15280	17880

Relays of BBC World Service and Sces to Asia. For full schedule see BBC entry under Great Britain.

During the next three years the BBC Far Eastern Relay Station will move from its present location in Johore, Southern Malaysia, to a site on the island of Singapore. Agreement has been reached with the Government of Singapore for the move, following the termination of the BBC's licence to broadcast from its present site at Tebrau. It is expected that the transmitting equipment will be transferred in stages from the old site to the new station without noticeable interruption to the service.

RAAF RADIO BUTTERWORTH (Mil.)

ADDR: RAAF Air Base, Butterworth, c/o GPO, Penang. **Te:** 331666.
L.P: Officer-in-Charge: Sqn.Ldr P. Beare. Secr: Mrs. D. Farley.

STATION: 1445kHz 0.4kW.
D.PRGRS in English: Mon-Thurs 2230-1600; Fri-Sun 24h.
Relay R. Malaysia: D 2230-2300, 2340-0010, 0030-0130, 0600-0610, 1100-1110.
ANN: "This is RAAF Radio Butterworth, the Voice of the Royal Australian Air Force in Malaysia".

SABAH

L.T: GMT+8h – **Pr.L:** Bahasa Malaysia, English – **E.C:** a/c 50, 230/400V (yes).

R. MALAYSIA SABAH (Gov.)

ADDR: P.O. Box 1016, Kota Kinabalu. **Te:** 52711. **Cable:** Broadcasts.
L.P: Dir. of Broadc: Datuk Hj. S. Hj. Amin. Dep.Dir: Abdul Chani Rashid. Chief Eng: T.V. Lee.

STATIONS: Kota Kinabalu (G.C: 116.14E/06.12N). KK=Kota Kinabalu. LD=Lahad Datu. *) Voice of Malaysia(Suara Malaysia).

Location	kHz	kW	Location	kHz	kW
Tenom	576	10	Kudat	801	10
KK	603	20	LD	828	10
LD	675	10	Tawau	927	10
KK	693	20	Sandakan	1080	10
Tawau	747	10	Kudat	1197	10
Tenom	774	10	Turan	*1475	600
Sandakan	783	10	KK	4970	10

FM: Layang-Layang 97.5MHz 100kW.

HOME SCE. National Netw: Bahasa Malaysia 1000-1200, 0200-0500, 0700-1600. **Blue Netw:** English 1200-0200, 0500-0700, 0900-1600. **Bahasa Malaysia** (joint to National Netw): 1145-1215, 1230-1315, 1330-1400.

SUARA MALAYSIA (Voice of Malaysia): 1030-1300 Filipino, incl: 1135 Tagalog, 1215 Tausug, 1230 Tagalog, 1300 Maguindanaon.
ANN: Bahasa Malaysia"Inilah R. Malaysia Kota Kinabalu"
INT-SIG: Opens with State Anthem and closes with Nat. Anthem – **V.** by QSL-card. Re. to Head of Programming.

SARAWAK

L.T: GMT+8h – **Pr.L:** Bahasa Malaysia, English, Chinese and 7 local languages – **E.C:** a/c 50, 230/400V (yes).

RADIO MALAYSIA SARAWAK (Gov.)

ADDR: Broadc. House, Kuching. **Te:** 22342. **Cable:** Broadcast.
L.P: Dir. of Broadc: Salleh Askor. Dep.Dir: Chew Hock Guan. Contr. of Prgrs: Ismail Hassan. Ag. Chief Eng: Kho Kwang Khoon.

STATIONS: Kuching G.C: 110.20E/01.33N – Sibu G.C: 111.51E/02.18N – Limbang G.C: 115.00E/04.45N – Miri G.C: 113.59E/04.23N.

Location	kHz	kW	Netw.	Times
Miri	549	20	Y	2200-1600
Kuching	550	20	Y	2200-1600
Sibu	620	20	R	2200-0100, 0330-0600, 0900-1600
Limbang	650	20	Y	2200-1600
Kuching	730	20	R	2200-1600
Miri	820	20	R	2200-0100, 0330-0600, 0900-1600
Kuching	850	10	G	2200-2300, 0400-0500, 1000-1500
Limbang	870	20	R	2200-1600
Sibu	910	20	Y	2200-1600
Kuching	950	10	B	2200-2400, 0400-0530, 1030-1500
Sibu	1060	20	G	2200-2300, 0400-0500, 1000-1500
Miri	1210	20	G	2200-2300, 0400-0500, 0935-1500
Miri	3385	10	G	2200-2300, 0400-0500, 0935-1500
Kuching	4835	10	Y	2200-0130, 0830-1600
Kuching	4895	10	G	2200-2300, 1000-1500
Kuching	4950	10	R	2200-0100, 0800-1600
Sibu	5005	10	G	2200-2300, 0400-0500, 1000-1500
Miri	5020	10	G	2200-2300, 0400-0500, 0935-1500
Kuching	5030	10	B	2200-2400, 1030-1500
Sibu	6050	10	G	2200-2300, 0400-0500, 1000-1500
Miri	6060	10	G	2200-2300, 0400-0500, 0935-1500
Kuching	7130	10	B	0400-0530
Kuching	7145	10	Y	2300-1500
Kuching	7160	10	R	2300-1445
Kuching	7270	10	G	0400-0500, 1000-1500
Kuching	9535	10	Y	0245-0700
Kuching	9605	10	R	2200-0730, 0900-1600

HOME SCE. Kuching: Y=Yellow Netw. in Bahasa and Melanau; R=Red Netw. in Chinese and English; G=Green netw. in Iban, Kayan and Kenyah; B=Blue Netw. in Bidayuh.
Sibu: Y=Yellow Netw. in Bahasa Malaysia and Melanau; R=Red Netw. in Chinese and English; G=Green netw. in Iban.
Limbang: Y=Yellow Netw. in Bahasa Malaysia and Melanau; R=Red Netw. in Chinese, English, Iban, Bisaya and Murut.
Miri: Y=Yellow Netw. in Bahasa Malaysia; R=Red Netw. in Chinese; G=Green Netw. in Iban, Kayan and Kenyah.

ANN: Bahasa Malaysia: "Inilah R. Malaysia (location)" – **INT-SIG:** A musical phrase (played on a native instrument, the Sape), alternating between A and F – **V.** by QSL-card. Rp. required – **ALF:** M$ 12.00 (main sets), M$ 5.00 (battery sets), Radio and TV combined: M$ 24.00.

MALDIVES (Rep. of)

L.T: GMT+5h – **Pr.L:** Maldivian.

RADIO MALDIVES (Gov.)

ADDR: Dept. of Inf. & Broadc. "Moonlight Higun", Malé. **Te:** 517.
L.P: Dir: M. Shujau. Dir.Tec: K. Ali Maniku.

STATIONS (Coverage: Ceylon, India, Pakistan):

kHz	kW	H. of tr.	kHz	kW	H. of tr.
1507	10	0100-0300	6150	7	0500-0700,
		1500-1730			1100-1300
3522*	16	1300-1500	7225	12	0300-0500
4740	30	1500-1730			0900-1100
			9550	14	0700-0900

*) nom. 3490kHz.

HOME SCE. in Divehi (Maldivian): as above.

OVERSEAS SCE. on 4740kHz in English (Commercial Sce): 1500-1730.

ANN: Divehi: "Mee R. Maldives". E: "This is Radio Maldives". "This is the Overseas Sce. of R. Maldives Broadcasting from Malé in the Republic of the Maldives" – **V.** by QSL-card – **ALF:** Rs. 12.00.

MONGOLIA (People's Rep.)

L.T: GMT+8h – **Pr.L:** Mongolian.

ULAN BATOR RADIO (Gov.)

ADDR: C.P.O. Box 365, Ulan Bator. **Cable:** Mongolian Radio.
L.P: Dir. of Foreign Rel: B. Dagva. Head English Dept: Mr. Tuvdennyam.
STATIONS: Ulan Bator.
P=Prgr; FS=Foreign Sce. All SW-frequencies seem to vary.

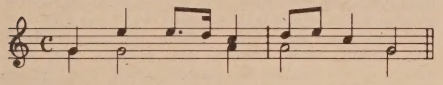
kHz	kW	P	kHz	P	kHz	P
209	60	II	5960	II/FS	9574	FS
227	150	I/FS	6383	II/FS	11856	I/FS
4080	—	I/FS	7236	FS	17788	FS
4763	—	I/FS	7261	I/FS	17860	FS
5055	—	I/FS				

HOME SERVICE in Mongolian.
1st Prgr: 2200-0100 on 227/4080/4763/5055kHz; 0100-1100 on 227/5055/7261/11856kHz; 1100-1420 on 227/4080/4763/5055kHz; 1420-1500 on 227/5055kHz.
2nd Prgr: 0855-1100 on 209/5960/6383kHz.

FOREIGN SERVICE
Area: I=S.E. Asia/Far East; II=USSR; III=China; IV=Africa.

English	Area	kHz	Russian	Area	kHz
1220-1250a	I	5960/6383	1330-1400d	II	7236/7261
1715-1745a	I	9574/11856	1335-1400e	II	227/4080, 4763/5055
French					
1945-2015b	IV	17788/17860	**Standard Chinese**		
Mongolian			1100-1130	III	7236/7261
1330-1400c	II	7236/7261	1300-1330	III	7236/7261
1430-1455	I	7236/7261	1400-1425	III	7236/7261
			2100-2125	III	7236/7261

a) exc. Sun; b) exc Sun, Mon, Thurs; c) exc. Mon; d) only Mon; e) only Fri.
ANN: "Ankarari Ulanbatras Jarsj Baina" (Attention: This is Ulan Bator calling) – **V.** by QSL-card. Rec. acc.
INT-SIG:



NEPAL

L.T: GMT+5.40h – **Pr.L:** Nepali – **E.C:** a/c 50(no).

RADIO NEPAL (Gov.)

ADDR: Dept. of Broadcasting, His Majesty's Government of Nepal, P.O. Box 634, Singha Durbar, Kathmandu. **Te:** 11569. **Cable:** Radionepal.
L.P: Dir.Gen: K.B. Khatry.
STATIONS: Khumaltar (G.C: 85.20E/27.45N), Jawalakhel (G.C: 85.20E/27.39N).
k=Khumaltar, j=Jawalakhel.

kHz	kW	kHz	kW
790k	10	5007j	5
*3425k	100	7105j	100

*) to change to a 90m band frequency.

HOME SCE: 0020-0350(Sat 0450), 0720-1050, 1150-1435, 1520-1720 on all freqs.
N. in Nepali: 0120, 0320, 0850, 1350, 1620. **N. in English:** 0250.
External Service: English 1435-1520. **N.** 1450.
ANN: Nepali: "Yo Radio Nepal Ho". E: "This is R. Nepal" – **INT-SIG:** Instruments used are conch shell, violin, piano and jal tarang – **V.** by QSL-card. Rp.

When writing to our advertisers please make reference to the WORLD RADIO TV HANDBOOK

PAKISTAN

L.T: GMT+5h – **Pr.L:** Urdu – **E.C:** a/c 50, 230/400 (no).

PAKISTAN BROADC. CORPORATION (Gov.)

1st Addr (Home Sce): 81-A, Satellite Town,Rawalpindi.
L.P: Dir.Gen: Ijlal Haider Zaidi. Dir.Adm: Z.A. Saeed. Dir.Eng: Irfanullah.
Cable: "Digbroadcast".
2nd Addr (External Sce): 82-A. Satellite Town, Rawalpindi.
L.P: Contr: S. Butt. Dir. of Training and Liaison: S.M. Rafique. Dir. Listeners' Research: N. Ahmad.
3rd Addr (Adm): 83-A, Satellite Town, Rawalpindi.
L.P: Contr: N. Ahmed.

STATIONS: Mediumwaves
*) night only, v=varies, p=projected.

	kHz	kW		kHz	kW
Peshawar	p540	300	Lahore II	1090	10
Islamabad	p580	1000	Hyderabad II	1100	10
Lahore I	630	100	Rawalpindi I	1150	10
Peshawar II	730	10	D.I.Khan	1170	10
Quetta	750	750	Peshawar	p1260	300
Karachi	790	100	Larkana	1340	10
Karachi I	830	10	Rawalpindi II	1430	10
Quetta II	860	150	Karachi II	1450	10
Hyderabad	1010	120	Khaipur	1510	10
Multan	1030	120	Bahawalpur	1540	10

HOME SERVICES: Mediumwave Prgrs
Karachi (Urdu, English, Sindhi): 0100-0400, 0600-1900(Sun 0100-1900).
Hyderabad (Urdu, English, Sindhi): 0100-0400, 0600-1810(Sun 0100-1810).
Quetta (English, Urdu, Pushto, Balochi, Brahri): 0100-0400, 0600-1810(Sun 0100-1810).
Multan (English, Urdu, Punjabi, Seraiki): 0100-0400, 0700-1810(Sun 0100-1810).
Lahore (English, Urdu, Punjabi): 0100-0400, 0600-1900(Sun 0100-1900).
Rawalpindi (English, Urdu, Pathohari): 0100-0400, 0600-1900.
Peshawar (English, Urdu, Pushto, Hindhko, Chitrali): 0100-0330, 0600-1810(Sun 0100-0500, 0600-1810).
N: English (Nat) 0203, 0805, 1300, 1600, 1805.

SHORTWAVE (HOME SERVICE)
K=Karachi 2×50, 2×10kW (G.C: 67.00E/24.55N); I=Islamabad 2×250, 5×100, 1×10kW (G.C: 73.12E/33.27N); Rawalpindi 1×10kW (G.C: 73.00E/33.30N); Peshawar 1×10kW (G.C: 71.30E/34.00N); Q=Quetta 1×10kW (G.C: 67.00E/30.15N).

St	kHz	kW	Prgr.	Times
P	3200	10	RS	1415-1810
Q	3240	10	RS	0045-0900(Sun 0345),1350-1600
I	3300	10	IS	1700-1810
K	3890	50	IS	1700-1810
I	3965	100/250	IS	0045-0415
I	3990		IS	1400-1410,1500-1645
P	4020	10	RS	0045-0415(Sun 0445)
I	4020		IS	1300-1600
R	4060	10	SS	0300-0400,1415-1810
R	4060	10	RS	0045-0400(Sun 0500)
K	4735	100	IS	0045-0415,1400-1810
K	4735	100	LS	2345-0045,1815-2000
I	4785		IS	1700-1810
I	4935	100	BS	0300-0400
P	4950	10	RS	1100-1400
I	4990		IS	0350-0400
R	5010	10	RS	1200-1400
I	5055	100	IS	0215-0415
I	5060	10	IS	1200-1340,1400-1410,1500-1645
Q	5980	10	RS	0600(Sun 0400)-1030,1045-1335
I	6010	100	BS	1045-1245
I	6120	100	SS	0900-1100
I	6130	100	IS	0045-0325
P	6190	10	RS	0600-1030
R	7060	10	RS	0600-1100
K	7135	10	IS	0045-0415(Sun 1145), 0600-1145, 1200-1645
I	7165	50	IS	0600,0700,0800,0830-1340
K	7265	50	LS	0300-0430,0500-0815,1330-1630

St.	kHz	kW	Prgr.	Times
I	7290	10/50	IS	0830-0945
I	9545	100	IS	0600,0700,0800,0900,1000-1005
I	9545	100	LS	0430-0445
K	9645	10/50	LS	0600(Sun 0430)-1145,1200-1345

Prgrs: in Urdu/English: IS=Internal Shortwave Sces; LS=Link Sces; RS=Regional Sces; BS=Balti Sce; SS=Sheena Sce.

EXTERNAL SERVICES

kHz	kHz	kHz	kHz	kHz	kHz	kHz
3240	7095	7345	9690	11885	15520	17800
3965	7165	9460	11675	15110	17665	17830
6115	7195	9645	11750	15325	17750	21590
7085	7290					

Areas: I=Europe; II=Near and Middle East; III=E. Africa; IV=So. and So. Ea. Asia; V=Far East.
*=dictation news.

Arabic	Area	kHz	Indonesian	Area	kHz
1715-1845	II	7290,9460	0200-0245	IV	15325,17665
Bangla			**Swahili**		
0100-0245	IV	7195,11885	0300-0345	III	11885,15325
1115-1315	IV	11885,15520			17830
Burmese			**Sylheti**		
1100-1200	IV	17800,21590	2030-2100	I	7085,6115
Dari			**Tamil**		
1400-1700	II	3240	1000-1045	IV	11885,17750
English			**Turki**		
*0230-0245	V	17830,21590	1215-1315	II	6115,7165
*0430-0445	III	11885,15325,	**Turkish**		
		17830	1800-1900	II	7085,6115
*1100-1115	I	15110,17665	**Urdu** (incl. English news)		
*1630-1645	II	9460,11675	0045-0200	IV	11750
2100-2145	I	7085,6115	0500-0815	II	15325,17830
Farsi					21590
1645-1745	II	6115,7345		IV	15520
French				III	15115,17750
1900-2000	III	7095,9460	0830-1100	I	15110,17665
Gujrati			1330-1630	II	9460,11675,
0345-0430	III	11885,15325,			15325
		17830	1915-2100	I	7085,6115
Hindi			2345-0045	IV	7195,9460,
0830-1000	IV	11885,17750			11750

ANN: "This is Radio Pakistan" – **V.** by QSL-card. Re. to P.O. Box 443, Karachi – **F.PL:** 100kW at Khairpur.

AZAD KASHMIR RADIO

ADDR: Azad Kashmir Road, Muzaffarabad, Azad Kashmir, via Pakistan.
L.P: Chief Eng: M. Sajjad Ali Siddiqui.

STATIONS	kHz	kW	H. of tr.
Trarkhel	3915	10	0100-0434,1415-1834 (Sun 1904)
Trarkhel	5950	10	1200-1400
Trarkhel	7265	10	0600-0934

A new 10kW tr. was inaugurated on 29th Apr, 1976, for MW. Freq. unknown.
D. Prgrs in Kashmiri, Urdu – Freqs are often changed; other freqs to be used, e.g. 3195/3840/3980/4915/6240kHz.
V. by letter. Rp.

PHILIPPINES (Rep. of the)

L.T: GMT+8h – **Pr.L:** Tagalog (Filipino), Visayan, Ilocano, Bicolano, English – **EC:** a/c 60Hz, 220/110V (yes, in Central Luzon and major cities).

TELECOMMUNICATIONS CONTROL BUREAU

(Dept. of Public Works, Transportation and Communication.) 5th Flr, E. de los Santos Bldg, 100 Quezon Blvd, Quezon City 3008. **Te:** 600006.
L.P: Dir.Gen: Ceferino S. Carreon. Chief of Licensing: Tr. P. de Leon. Chief Freq. Div: Mtrs. Sylvia I. Marcelo.

KAPISANAN NG MGA BRODKASTER SA PILIPINAS (KBP)

(Association of Broadcasters in the Philippines), Suite 402, Chateau Makati Bldg, Rizal Ave, Makati, Riz 3117. **Te:** 867846.
L.P: Chairperson: R.G. Jalosjos. Pres: T.F. Valencia. Exec. Officer: (Ms.) Josephine R. Torrijos – **Member st's:** all broadc. st's of all classes.

FEDERATION OF CATHOLIC BROADCASTERS

Pedro Gil Str, Santa Ana, Manila 2802. **Te:** 584828.
L.P: Pres: Rev.Fr. James Reuter.
PUB: The Communicator (monthly).
Member st's: 6, 11, 12, 14, 15, 16, 35, 43, 50, 55, 60, 61, 72, 76, 83, 85, 90, 96, 100.

Callsign Assignments: DU: Luzon Isl (Shortwave only); DW: Luzon Isl; DX: Mindanao and Sulu Isl; DY: Visayan Isl and Palawan Isl; DZ: Luzon Isl.
Province Abbreviations: (Although acceptable to Philippine P.O. letters should bear prov. names fully spelled out. Also, use four-digit postal code).
Ak=Aklan; Ant=Antique; Boh=Bohol; Btgas=Batangas; Buk=Bukidnon; Bul=Bulacan; Cag=Cagayan; Cam Nte=Camarines Norte; Cam Sur=Camarines Sur; Dvo Nte=Davao Norte; Dvo Sur=Davao Sur; Isa=Isabela; IN=Ilokos Norte; IS=Ilokos Sur; LU=La Union; Mas=Masbate; M Octal=Mindoro Occidental; M Ortal=Mindoro Oriental; Pang=Pangasinan; Que=Quezon; Riz=Rizal; S Sur=Surigao del Sur; Sor=Sorsogon; Tar=Tarlac; Z Nte=Zamboanga del Norte; Z Sur=Zamboanga del Sur.

Abbreviations peculiar to Philippine listings:
AFB=Air Force Base; Assc=Association; Atty=Attorney; Bcst=Broadcast; Bcstg=Broadcasting; Blvd=Boulevard; Bo=Barrio; C=City; Coll=College; Commty=Community; CP=Construction Permit; Ctr=Center; Eng=Engineer; FEBC=Far East Broadcasting Co; Entr=Enterprise; Flr=Floor; GM=General Manager; Msgr=Monsignor; Net=Network; Ow=Owner; PD=Program Director; Phil=Philippine; SM=Station Manager; Sys=System; TD=Technical Director; U=University; Vill=Village.

General Notes: Station identification is made using English language, or only occasionally Spanish language alphabet. Generally, st. IDs are on the hour and half hour, and consist of call letters and locations, and in most cases, system or network name. Frequency may be expressed in English, Spanish, or occasionally Tagalog around the Greater Manila Area. Reports to st's should be sent directly to individual st. rather than to system or network HQ.
Following cities and towns comprise the Greater Manila Area: Makati, Riz; Malabon, Riz; Malolos, Bul; Mandaluyong, Riz; Manila; Navotas, Riz; Pasay City; Quezon City; San Juan, Riz; Valenzuela, Bul.

STATIONS: All st's comm. exc. 1, 4, 5, 56 (rlg, cult), 18, 90, 91 (educ), and 2, 3, 62, 68, 91 (gov.).
Stations change from day to night facilities at 1000, and vice-versa at 2200.
Mediumwaves: Special symbols: d=directional radiator. *) inactive. °) construction permit. Sch=schedule.

Schedule codes: Sign on: a-k; Sign off: m-z.
a=1730, b=2000, c=2100, d=2130, e=2200, f=0100, g=0500, h=0800, i=0900, j=1000, k=0030.
m=0000, n=1100, o=1300, p=1400, q=1500, r=1600, s=1700, t=1800, u=1900, v=2200, w=0030, x=0130, y=0500, z=0900.
For locations, cf. MW Frequency List.

Call	kHz	kW		Call	kHz	kW	
55) DZWT	540	10	bq	42) DWKW	600	10	ct
7) DYRB	540	5	cq	59) DZVV	600	1	cp
15) DXBB	540	2.5/	eo	81) DXMB	610	1	cq
		1		9) DWWX	620	50	cr
1) DYCI	550	1	cr	42) DZRL	630	1	bq
12) DXDD	550	2.5/	cq	17) DYAG	630	5/1	
		1		73) DXBC	630	5	
96) DXBI	560	2.5/	cp	9) DXWW	640	1	cq
		1		92) DZXC	640	1	cp
16) DZCI	560	1	cq	58) DZYZ	640	1	cq
85) DXCD	560	5/	cq	71) DXOR	650	1	cr
		2.5		51) DZRH	650	10	br
3) DZAG	570	2.5	cq	32) DYFL	651	1d	v/jo
9) DYDY	570	1		42) DYKC	660	5/1	br
37) DZBB	580	10d	bt	73) DXDC	°660	10	cr
73) DWHB	590	1	cr	9) DWLW	660	1	cr
73) DXDC	590	5	cq	73) DZHN	660	5/1	cq
73) DYHP	600	5	cq	58) DXRD	669	0.5	cr

Call	kHz	kW	
64) DXJM	680	1	
2) DZAS	680	40d/ 10	cr
42) DXDX	690	1	cq
51) DYEZ	690	5	br
9) DWGW	690	1	cr
42) DZTG	690	1	cq
9) DXCT	694	1	cr
59) DZLU	700	1	cp
80) DXRA	710	10/ 5	cq
1) DZFM	710	10	24h
67) DZGB	716	1	cq
73) DYHB	718	1	cr
58) DZYI	721	1	cq
73) DXIC	723	1	cr
60) DXND	730	1	co
88) DWRL	730	1	cq
30) DYBR	730	1	cq
9) DWBW	740	1	bq
89) DXMC	740	10/ 5	cr
52) DZBM	740	5	ct
36) DZCV	740	1	
75) DZNL	750	1	cp
58) DXRI	750	1	cr
9) DWNW	750	5	cq
36) DXGS	751	1	
58) DYNC	760	5/1	cr
89) DXMZ	770	1	cp
11) DZJO	770	2.5	cr
51) DZJC	770	1	cq
13) DWHL	770	2	cr
63) DYRR	770	1	cq
89) DXMZ	770	1	cp
65) DYPR	770	5/1	
73) DXCC	780	10	cr
77) DZRJ	780	5	ct
58) DZYT	780	1	cq
27) DZAB	791	1	cq
51) DYVL	792	1	cq
33) DZXE	792	1	cp
39) DWFA	793	0.25	cq
58) DXRE	800	1	
59) DYFM	800	5	bq
69) DWIZ	800	5	cr
58) DXBL	803	1	
54) DYME	810	1	cq
89) DXMI	811	1	cp
58) DZSP	811	1	cq
10) DXBS	820	1	cp
31) DYRE	°820	5	
43) DYKA	820	1	co
39) DWZR	821	1	cq
58) DXRB	830	1	
84) DXSS	°830	2.5	cr
62) DZCA	830	5	24h
59) DZNC	840	1	cp
40) DYSR	840	10	cq
36) DZGE	850	5	cr
89) DXDN	850	1	cp
81) DYOG	860	1	
58) DXRE	860	1	
5) DZRV	860	50d	cx/hq
9) DYBQ	870	5	cq
47) DZBT	871	1	cq
60) DXMS	880	10	cp
25) DWKS	880	1	
58) DZTC	880	0.1	cr
6) DZPA	890	2.5	cp
36) DZRC	890	5	cr
58) DXRT	°890	5	
19) DYRC	900	5	cq
57) DXUM	900	1	cp
19) DYRC	900	5	cq
42) DYKW	911	1	cq
3) DZRP	920	50d	24h
31) DXER	930	10	
58) DXRO	935	1	co
88) DWAW	940	15	br
89) DXRZ	949	5	cp

Call	kHz	kW	
89) DXMO	950	5	cp
1) DZRM	960	10	cr
58) DXYZ	979	5	cr
99) DXGE	980	5	cq
87) DWRT	980	10	ct
83) DXCP	991	2.5	cp
7) DYRP	991	5	bq
89) DWXX	1000	5	cr
73) DXHP	1000	1	cq
58) DZRD	1010	5	cr
7) DYRO	1010	1	cr
42) DXXX	1010	25	cq
87) DYSS	1020	5	ct
59) DZWX	1020	1	cr
9) DWCW	1021	1	br
98) DYXT	1030	1	cr
59) DZDR	1036	5	cr
28) DXML	1040	1	bp
51) DYMS	1040	1	
9) DWDW	1041	5	cr
46) DXLL	1047	5	cq
59) DZVR	1049	5	cp
90) DYSA	1050	1	cp
29) DZEC	1050	5/1	cr
42) DXKD	1060	1	
2) DXKI	1060	5/1	cp
88) DYMC	1060	1	cq
42) DXKS	1060	1	
42) DXKT	1070	1	cq
26) DWAD	1080	10	cr
73) DZHN	1080	5	cq
80) DXCM	1089	5	cp
45) DYTR	1090	1	
8) DXUL	1101	1	cq
39) DYHR	1110	1	
70) DZLF	1111	3	
7) DYRM	1115	1	
36) DZXT	1120	1	
73) DZHP	1130	10	24h
29) DZEL	1150	5	
14) DYRD	1150	1	cq
89) DXDS	1160	1	cp
9) DWWA	1160	10	
59) DZWN	1170	5	cr
89) DXMV	1170	1	
35) DYRF	1180	5	co
34) DWBL	1190	10	cr
1) DXSO	1190	1	
73) DXRS	1196	1	cq
2) DXFE	1200	5/1	cr
7) DYRH	1206	5	cq
1) DZMQ	1210	5	cq
91) DZLB	1210	1	
53) DXCB	1211	1	co
78) DYRV	1220	1	cp
1) DXSM	1220	1	cr
86) DXSY	1220	5/1	cq
67) DZMD	1220	1	cq
DXCB	1230	1	
27) DZSA	1230	5	cq
92) DZXO	1240	1	cp
8) DYUL	1240	5/1	cr
47) DZLT	1240	5	cr
2) DYVS	1240	1	
48) DZXQ	1250	5	cr
67) DZMS	1251	1	cq
74) DYKC	1260	5	
49) DWMC	1260	1.5	cr
59) DZVX	1273	1	cq
42) DWWW	1280	25/ 10	cr
81) DYRI	1280	5	bq
72) DZYQ	1290	1	
42) DXKO	1290	1	cq
93) DWAR	1300	2/1	cp
77) DYII	1310	6	cq
58) DWSI	1391	1	co
38) DWAY	1323	1	cr
56) DXCR	1327	5	dw/ ap
42) DZKI	1330	1	cq

Call	kHz	kW	
81) DYFJ	1340	1	co
1) DXRP	1350	5	cr
87) DZYR	1350	1	cp
87) DZYS	1352	2/1	cp
18) DZRA	1360	1	co
23) DZEM	1360	10	cq
82) DYRL	*1360	5	
42) DZBS	1370	1	bq
42) DXKP	1370	1	cp
66) DYVR	1370	2.5	cp
40) DZEE	1380	10	cr
42) DYKP	1390	5	br
1) DWAS	1390	1	cp
92) DZMG	1390	1	cp
41) DXHU	*1400	5	
1) DYMR	1410	1	cr
91) DZUP	1410	1	km/ in
79) DWRB	1418	1	cq
7) DYRS	1420	1	cq
83) DZDL	1421	1	cq
2) DXAS	1430	1	cr
44) DZOM	1440	5/1	
37) DYOO	1440	1	bq
97) DYLV	1450	1	cr
2) DWRF	°1470	250d	
81) DYKR	1481	1	cp
58) DZYA	1488	1	cq
36) DXOC	1490	1	cq
59) DYWB	1500	5/1	cr
1) DZEQ	1510	1	cr
87) DZYM	1530	1	cp
22) DZME	*1540	5	
95) DYLA	1555	10	br
17) DYRG	1570	5/1	
68) DZHH	1570	10	
20) DYDR	1590	1	cr

SHORTWAVES: all in Manila.
*=inactive

Call	kHz	kW	Name
1) DUB4	3286	2.5	Philippine Bcstg. Sce.
2) DZB2	3345	1	FEBC: 2200-2400, 0845-1500
3) DUR4	*5965	50	Radyo Pilipinas
2) DZH6	6030	15	FEBC: 2200-1600
2) DZF4	6120	50	FEBC: 2100-2300
1) DUH2	6170	10	Philippine Bcstg. Sce.
2) DZI9	7225	50	FEBC: 2100-2315,1000-1800
2) DZH7	9505	50/ 100	FEBC: 0800-0900,1100-1400, 1630-1800
3) DUR2	9579	50	Radyo Pilipinas: 0657-1854
1) DUH4	9615	0.25	Philippine Bcstg. Sce (exp)
5) —	9675	50	R. Veritas: 2235-0000
2) DZF5	9715	50	FEBC: 2115-2330, 0900-1100, 1300-1800
5) —	11725	50	R. Veritas: 0000-0200, 1130-1500
5) —	11875	50	R. Veritas: 1130-1500
2) DZH8	11855	50	FEBC: 1030-1130,1630-1800
2) DZF9	11890	50/ 100	FEBC: 2300-0100, 0800-1030, 1145-1615
2) DZF2	11920	50	FEBC: 2200-2330,0800-1215
3) DUR3	*11950	50	Radyo Pilipinas
2) —	15235	50	FEBC: 2345-0230
5) —	15280	50	R. Veritas: 0000-0200
2) DZH9	15300	50	FEBC: 2345-0215,0830-1400
2) DZF9	15390	50	FEBC: 0100-0600,1145-1245, 1615-1800
2) DZF8	15440	50	FEBC: 2330-0215, 1215-1630
2) DZI6	17810	50	FEBC: 2345-0600
2) DZI8	21515	2	FEBC: 2330-0230

1) Bureau of Broadcasts, Dept. of Public Inf, 5th Flr, GSIS Bldg, Arroceros and Concepcion Strs, Ermita, Manila 2801. **Te:** 408976. **Cable:** Philcast.
L.P: Dir.Gen: Florentino S. Dauz. Asst.Dir.Gen: Alfredo O. Cuenca. TD: Luis B. Quintos.
Stations: 710/830/960/1500/3286/6170/9615/103.5/104.5/105.5 (Manila), 550 (Iloilo C), 1210 (Dagupan C), 1220 (Jolo, Sulu), 1300(Marawi C), 1350 (Davao C), 1410 (Mandawe C), 1510 (Baguio C). **FM:** 103.5MHz – 24h. Manila TXs: Valenzuela, Bul (G.C: 120.56E/14.41N). DUB4/DUH2 antenna 150°/210.
F.PI: new st. under constr. at Cagayan de Oro C; new MW sts around country.

2) **FAR EAST BROADCASTING CO.**
ADDR: Box 2141, Manila. **Te:** 221611. **Cable:** Febcom.
L.P: Dir. for the Phil: Fred Magbauna. Asst.Dir. and Prgr. Div.Mgr: Roy Alvarez. Chief Eng: Francisco Matias A. Overseas Prgr.Mgr: Dale Golding.
PHILIPPINE SCE in English and Tagalog: On DZAS 680kHz 24h; On 3345kHz, 2200-2400, 0900-1500; On 6030kHz 2000-1600.
Manila's Fine Music Station: 2100-1600 on 98.7MHz (mainly class. music).
Southern Philippine Sts: DXKI 1060kHz (Koronadal, So. Cotabato) 1kW: 2100-1400; DXFE 1200kHz (Davao C) 5kW: 2100-1600; DXAS 1430kHz (Jolo, Sulu) 1kW: 2100-1600.
Central Philippine Sts: DYGS 1300kHz (Bacolod, C. Iloilo)

1kW: 2100-0500, 0900-1400: DWAS 1390kHz (Legaspi C) 1kW: 2100-1400.

OVERSEAS SERVICE: G.C: of the SW-trs: Bukawe, Bulacan 120.55E/14.48N; Iba, Zambales 119.57E/15.22N. I=China Mainland; II=Malaysia/Indonesia/Singapore; III=Australia/New Zealand/New Guinea; IV=Japan; V=Thailand/Cambodia/Vietnam/Burma; VI=India/Pakistan/Ceylon; VII=USSR; VIII=South Africa; a=English; b=Mandarin; c=Chinese dialects (Amoy, Cantonese, Hakka, Shanghainese, Swatow); d=Russian; e=Indonesian; f=Malay; g=Javanese; h=Vietnamese; i=Lao; j=Cambodian; k=Burmese; l=Thai; m=Bengali; n=Tamil/Tibetan/Aonaga; o=Mongolian; p=German; q=French; r=Japanese; s=Tribal.

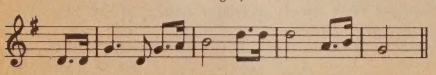
SCHEDULE: Nov 76-April 77

Time	Area	kHz/Beam	Language
2100-2230	I	6120(330°)	b
2100-2200	I	7225(330°)	b
	II	9715(30/210°)	g
2200-2330	II	9715/11920(30/210°)	e
2200-2315	II	7225(30/210°)	e
2200-2345	V	9505(280°)	l+i+j
2230-2300	I	6120(330°)	c
2300-0100	V/VI	11890(280°)	**English**
2300-0230	III	21515(150/330°)	**English**
2330-2400	II/IV	15440(30/210°)	**English**
2345-0100	II/IV	17810(30/210°)	**English**
2345-0230	II	15235(240°)	**English**
2345-0130	V	15300(280°)	k
0000-0115	II	15440(30/210°)	b+c
0115-0215	II	15440(30/210°)	e
0130-0215	V	15300(280°)	s
0100-0600	V/VI	15390/17810(280°)	**English**
0600-0800*	V/VI	15390(280°)	**English**
0800-0900	V	9505(280°)	**English**
0800-1000	III	11890(150/330°)	**English**
0800-1000	III	11920(30/210°)	**English**
0830-1100	II	15300(240°)	b+c+n
0900-1100	VII	9715(30/210°)	d
1000-1100	IV	7225/11920(30/210°)	r
1000-1100	III/VII	11890(150/330°)	d
1030-1100	I	11855(150/330°)	c
1100-1130	V	9505(280°)	s
1100-1130	II	7225/11890(30/210°)	**English**
1115-1215	V	11920(280°)	l+i
1115-1130	V	15300(240°)	s
1130-1200	V	9505(280°)	q
1130-1300	II	7225/15300(30/210°)	e
1145-1200	V	15390(280°)	q
1200-1245	V	15390(280°)	h+j
1200-1300	V	9505(280°)	h+j
1200-1400	VII	11890(330°)	d
1215-1630	V/VI	15440(280°)	**English**
1300-1400	V	9505/15300(280°)	k
1300-1400	IV	7225/9715(30/210°)	r
1400-1615	I	9715/7225(330°)	b+c
1400-1615	II	11890(30/210°)	b+c
1400-1630	V/VI	11920(280°)	**English**
1400-1630	I	9505(330°)	d
1615-1800	VII	9715/7225(330°)	d
1630-1700	I	11855(330/150°)	o
1630-1800	VIII	9505/15390(280°)	q+b
1700-1800	VII	11855(330/150°)	d+p

* Sun only.

N. English: 2330, 0030, 0130, 0230, 0330, 0430, 0830, 0930, 1330, 1430, 1530 – **Shortwave Mailbag:** Sun 2345, Tues 0345, Thurs 1445, Fri 0845.
Listeners' Requests: 0200, 1400.

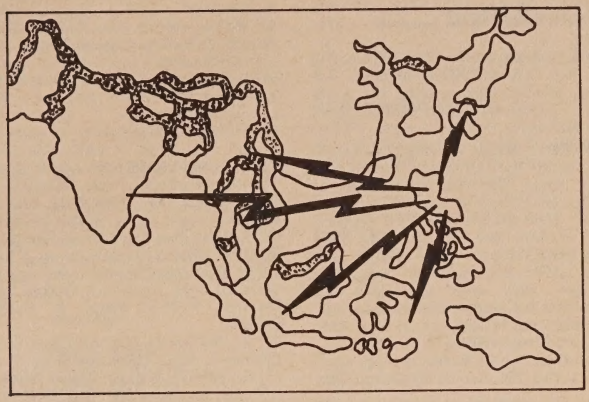
ANN: "This is FEBC Radio International transmitting from the Philippines" (quarterly). "This is FEBC Radio International operating in the (metre bands) on (frequencies). The time is . . . . . **GMT**" (hourly and half-hourly).
INT-SIG: "We have heard the Joyful Sound".



V. by QSL-card and letter. Rp. preferred (3 IRCs for Airmail). **PUB:** Prgr. schedule free on request. Signal (every two months). **F.PL:** Power of DXKI, Kornadal to 5kW; new 250kW MW-tr. on 1470kHz to cover Central and South China.

3) Radyo Pilipinas, Voice of the Philippines, National Media Production Ctr, Solana and Santa Potenciana Strs, Intramuros, Manila 2801. **Te:** 489846.
L.P: Dir: Gregorio S. Cendaña. St.Mgr: Ronnie Nathanielsz. Tec.Dir-Radio: Joe Dy.
Sts: domestic: 570 (Agoo, LU), 920 (Manila). Overseas: 9580kHz. **D.Prgr:** 0657-0954 to Japan, Korea, Taiwan; 0957-1154 to Indonesia, Borneo, Malaysia, Singapore, Sabah, Brunei, Sarawak; 1157-1354 to Burma, Cambodia, Thailand, Vietnam; 1357-1654(Sun 1554) to San Francisco, Canada, No. America; 1657-1854(W only) to Moscow, Northern Europe.
Ann: "You are tuned to Radyo Pilipinas, the Overs. Sce of the Voice of the Philippines, broadcasting from Manila" – **V.** by QSL-card – **PUB:** Prgr.Sched. and "This is the Philippines", a 45-rpm record of traditional Philippine music, free on request.
5) Philippine R. Education and Information Ctr, P.O. Box AC-378, Quezon C. **Te:** 971174. **Cable:** Veritas.
L.P: Pres: H.E. Julio Cardinal Rosales. Vice-Pres: Most Rev. Ricardo Vidal. Chmn: Most Rev. Jaime L. Sin. GM: Most Rev. Jesus J. Sison. TD: Jesus S. Torres.
D.Prgrs: On 860kHz 2100-0130, 0800-1500 in English and Filipino (Tagalog). **N:** 2203, 0030, 0900, 1000, 1300.
Ann: "This is DWRV broadc. on 860kHz from Capitol Site, Quezon City" – **V.** by QSL-card or letter.
Overseas schedule. English: 0100-0200 on 11725/15280kHz, 1400-1500 on 11725/11875kHz – **Indonesian:** 2225-2255 on 9675kHz, 1225-1255 on 11725/11875kHz – **Thai/English:** 0000-0100 on 11725/15280kHz, 1300-1400 on 11725/11875kHz – **Vietnamese:** 2300-0000 on 9675kHz. (Times and freqs subject to change).

Mediumwaves:
6) Abra Commty Bcstg Corp, Bo. Calaba, Bangued, Abra 0101 – Dir: Rev. Fr. Ricardo Kraft.
7) Allied Bcstg Ctr, Suite 406, Chateau Makati Bldg, Rizal Ave, Makati, Riz 3117 – Pres: Atty Ernesto V. Rosales.
8) Audience Inc, 2015-B Leveriza St, Malate, Manila 2801.
9) Banahaw Bcstg Corp, KBS Bcst Ctr, Bohol Ave, Cubao, Quezon City 3005 – Pres: Alex Lucban. GM: Marcial Samson. PD: Denis Cabalfin. TD: Phil A. Cabreros.
10) Basilan Bcstg Corp, Strong Blvd, Bo. Isabela, Basilan C 7831 – Ow: Mayor Leroy Brown.
11) Bayanihan Bcstg Corp, Carmelite Bldg, Infanta, Quezon 3918 – GM: Francis Lucas, Jr. Dir: (Miss) Erlinda So. PD: Filomeno Babas.
12) Dan-ag sa Dakbayan (Beacon of the Commty) Bcst Corp, Rizal Ave, Ozamis C 9101 – Dir: Rev. Fr. Sean McNulty.
13) Beta Bcstg Corp, Suite 431, FEM 11 Bldg, Aduana, Intramuros, Manila – SM: F.R. Llanora.
14) Bohol Chronicle Newspaper, 56 Mabini Str, Tagbilaran, Boh 6301 – GM: Atty Zoilo Dejaresco, Jr. TD: Eng. Espiritu Bolanio – **F.PI:** 5kW.
15) Bukidnon Bcstg Corp, Malaybalay, Bukidnon 8201 – Dir: Rev. Fr. Joseph I. Stoffel.
16) Cabanatuan Bcstg Sys, Marahan Bldg, Diversion Rd, Cabanatuan C 5301 – Dir: Pacifico B. Araullo.
17) Cadiz Radio & TV Net, 2117 Luna Str, Pasay C 3129.
18) Catanduanes State Coll, Bo Calatagan, Virac, Catanduanes 5001 – Educ, non-commercial.
19) Cebu Bcstg Co, Osmena Blvd, Cebu C 6401 (all st's).
20) Central Bcstg Inc, Cebu C 6401.
21) Central Mindanao U, Busuan, Buk.
22) Capitol Bcstg Ctr, 317 Roosevelt Ave, Quezon City 3008.
23) Christian Bcstg Sce (Iglesia ni Kristo), Central & Commonwealth Ave, Quezon C 3008 – SM: Pepito Guerrero. TD: Carlos Talag – **V.** by letter.
24) Combined Bcstg Corp, Tanawan, Btgas 4232 – Ow: Jose Laurel Jr.
25) Conamor Bcstg Corp, San Pablo C 3732.
26) Crusaders Bcstg Sys, 209 De la Paz, Mandaluyong, Riz 3119 – SM: Atty Joaquin T. Venus.
27) Delta Bcstg Sys, 5th Flr, Republic Supermarket Bldg, Florentino Torres Str, Santa Cruz, Manila 2805 – Ow: Rodolfo M. Santos.
28) Digos Bcstg Sys, MacArthur Hwy, Digos, Dvo Sur 9502.
29) Eagle Bcstg Corp, Suite 403, Delta Motor Sales Bldg, Quezon Blvd, Quezon City 3008 – Pres: Petronilo Alarcon.



TOWARDS A UNITED ASIA THROUGH INFORMATION AND MUTUAL UNDERSTANDING

RADIO VERITAS OVERSEAS
P.O. BOX 939
MANILA, PHILIPPINES

VERITAS OVERSEAS
PREIC

TD: Jose Dy. FM: 107.9MHz (Quezon C).
30) East Visayan Bcstg Net, Old Rd, Sagkahan, Tacloban C 7101 – Ow: Benjamin Romualdez.
31) Eastern Bcstg Corp, 9394 Calantas, San Antonio Vill, Makati, Riz 3116 – Pres: René Espina.
32) Eastern Bcstg Sys, 67 Dr. Alejos St, Quezon C – Ow: Atty Leon O. Ty.
33) Fairwaves Bcstg Net, Mira Hills, Vigan IS 0401 – Ow: Ramon Encarnacion.
34) FBS Radio Net, 7th Flr, Insurance Ctr Bldg, Luna Str, Intramuros, Manila 2801 – SM: Mike Enriquez – FM: 94.7MHz 3kW (Manila).
35) Filipanas Bcstg Corp, Redemptorist private Rd, Cebu C 6401 – Dir: Rev. Fr. Allen O'Brien. TD: P. Mendez.
36) Filipinas Bcstg Net, 5th Flr, Oledan Bldg, 131 Ayala Ave, Makati, Riz 3117 – Pres: Edmundo B. Cea. GM: Roberto Gozum. TD: Phil Paras.
37) Greater Manila Audience Radio-TV Arts, Channel 7 Bldg, Epifanio de los Santos Ave, Diliman, Quezon City 3004 – GM: Frederico Garcia. TD: Arcadio Caradang.
38) Guaranteed Bcstg Sys, Consuelo Vill, Bo. San Francisco, San Pablo C 3723 – SM: Jesus Beltran. PD: Paul Manalo.
39) Hypersonic Bcstg Ctr, Suite 340-342, J&T Bldg, 3894 Magsaysay Blvd, Santa Mesa, Manila 2806 – Ow & GM: Eng. Hernandez Baldo. TD: Jose Realubit. Pub. Rel: Thaddeus Catalan.
40) Inter-Link Commodities & Communications Asia, Inc, 1st Flr, ADC Bldg, Ayala Ave, Makati, Riz 3117 – (FM: 102.7MHz (Manila). Opr. St's owned by 5).
41) International Harvardian U, 123 Malvar Str, Davao C 9501 – Ow: Ildefonso D. Yap. PD: Leo de Gario Yap. TD: Dionisio Rodrigo.
42) Kanlaon Bcstg Sys, KBS Bcst Ctr, Bohol Ave, Cubao, Quezon C 3005 – Pres: Exequiel Garcia. GM: Benjamin Y. Benedicto. PD: Jorge E. Viduya. TD: Phil A. Cabreros. Opr st's of 9 and 74.
43) Kauswagan Bcstg Corp, St. Anthony Coll. San Jose, Ant 5601.
44) Calapan, M Octal 4401 – Ow: Jose Leido.
45) Liberty Bcstg Net, 10th Flr, Rufino Bldg, Ayala Ave, Makati, Riz 3117 – FM: 93.1MHz 2.5kW (Makati).
46) Lopez and Sons Bcstg Sys. Lopez and Sons Press and R. Bldg, Campaner Str, Zamboanga C 7801 – SM: Armando A. Lopez. PD: Maximo Enrique. TD: Andrew G. Navarro – **V.** by letter.
47) Luzon Bcstg Co, Granja and Cabana Str, Lucena C 3801 – SM: Rodolfo Abadillo.
48) Mabuhay Bcstg Sys, Rizal Lanes Bldg, 186 MacArthur Hwy, Malabon, Riz 3118 – Ow: Quirino de Guzman. SM & TD: Arcadio Carandang.
49) Magiliw Commty Bcstg Corp, Bo Tomana, Rosales, Pangasinan 0739 – Ow: Roberto Estrella.
50) Makabulos Bcstg Corp, 2nd Flr, Ocampo Bldg, F. Tánedo Str, Tarlac, Tar 2101 – Dir, PD & TD: Eng. Briccio B. Pascual.
51) Manila Bcstg Co, Elizalde Bldg, 141 Ayala Ave, Makati, Riz 3117 – Ow: Don Manule Elizalde. GM: Ben Pangan. TD: Harry Chaney.
52) Mareco Bcstg Net, 131 Del Monte Ave, San Francisco del Monte, Quezon C 3008 – Ow: Manuel Villar Sr. SM: Manuel Villar Jr. TD: Terry Bondoc. FM: 105.1MHz 1kW (Quezon C).
53) Marrakesh Bcstg Net, Mezzanine Flr, CVC Bldg, Juan Luna Str, Butuan C 8001 – Ow: H. Marcos V. Calo. SM: Caesar P. Llorente. TD: Leonardo Hildago.
54) Masbate Entr, R. Espinosa Sport Ctr, Masbate, Mas 5101 – Ow: N. Rocero Jr.
55) Mountain Province Bcstg Corp, St. Louis U. Campus, Bonifacio Str, Baguio C 0201 – Mgr: W. Brasseur. FM: 99.9MHz (Baguio C).
56) Mountain View Coll (Seventh Day Adventists), Malaybalay, Buk – Rlg, non-commercial – SM: Emmanuel P. Mullaneda. TD: J.G. Tanamal.
57) Mount Apo Bcstg Net, DSLA Bldg, Bangoy Str, Santa Ana, Davao C 9501.
58) Nation Bcstg Corp, 4th Flr, Sikatuna Bldg, Ayala Ave, Makati, Riz 3117 – Pres: Abelardo Yabut Sr. GM & V-Pres: Fred C. Colina. TD: H.P. Macandog – FM: 92.3MHz (Makati, Riz). Individual St: DYNC, 5th Flr, Ibañez Bldg, Cebu C 6401 – SM: Miss Rollie Chavez – **V.** by letter.
59) Northern Bcstg Co. Inc, Suite 408, Chateau Makati Bldg, Rizal Ave, Makati, Riz 3117 – Pres: Deogracias Estrella Jr.
60) Notre Dame Bcstg Corp, Sinsuat Ave, Cotabato C 9301.
62) Office of Civil Defense, Manila.
63) Ormoc Bcstg Co. Inc, Bo Bantigue, Ormoc C 7218 – Pres: Rodolfo M. Revilla.
64) Pacific Bcstg Net, Butuan C 8001.
65) Palawan Bcstg Corp, Rizal Ave, Puerto Princessa, Palawan 2901.
66) Panay Bcstg Corp, Punta Tabuk, Roxas C 5701 – SM: N.A. Arnold.
67) People's Bcstg Net, 2nd Flr, Bayona Bldg, Imperial Court Subdivision, Legaspi C 4901 – SM: Jorge D. Bayona. TD: Cielito Vita.
68) Philippine Air Force Time and Music Station, Nichols Philippine Air Force Base, Riz 3127 (also serves as aeronautical beacon).
69) Philippine Bcstg Corp, Elizalde Bldg, 141 Ayala Ave, Makati, Riz 3116 – GM: Eduardo L. Montilla. SM: Eduardo Valdez. TD: Leoncio Galang.
70) Ilokandia Radio, Batac, IN 0305 – SM: Simeon Valdez.
71) PNR Bcstg Net, PNR Bldg, Don A. Velez Str, Cagayan de Oro C 8401 – Ow: Pedro N. Roa.
72) R Bayanihan Sys, Capitol Site, Batangas C 4201 – Dir: Rev. Fr. Alfredo Madlangbayan. TD: Jose Jacob.
73) R. Mindanao Net-Intercontinental Bcstg Corp, 2nd Flr, Sikatuan Bldg, Ayala Ave, Makati, Riz 3117 – Pres: Juan Ibaezeta. V-Pres: Henry R. Canoy. FM: 106.0MHz (Manila).
74) R. Philippines Net, KBS Bcst Ctr, Bohol Ave, Cubao, Quezon C 3005. Owns st's of 42 opr by Kanlaon.
75) R. Nalinac, Nalinac Resort Hotel, Bauang. LU 0516 – GM: J.T. Zanoueta. SM: R.R. Dulay, TD: Juan Flora. **N:** in English on the h.
76) Rainbow Radio-TV Corp, Rizal Str, Bacolod C 6001 – Dir: Leopoldo Benedicto.
77) Rajah Bcstg Net, 8th Flr, J&T Bldg, Magsaysay Blvd, Santa Mesa, Manila 2806 – SM: Pedro Goñi. TD: Lino Intreya.
78) RCPI Bcstg Net, Curry Ave, Catbalogan, W. Samar 7301 – SM: Victory Bacay.
79) Ribbon Bcstg Net, 5th Flr, LCC Bldg, Solis Str, Lipa C 4216 – Dir: Dr. Ricardo B. Bonilla.
80) RMC Bcstg Co. Inc, Rizal Memorial Coll, Davao C 9501 – SM: Deogracias P. Bendijo.
81) Ruta Bcstg Net/Tamarao R. Net, Room 301, Sison Bldg, 3268 Magsaysay Blvd, Santa Mesa, Manila 2806.
82) Sampaguita Bcstg Sys, Lacson Str, Bacolod C 6001.
83) South Cotabato Communications Corp, General Santos C 9701 – Dir: Rev. Fr. George Nolan.
84) Southern Bcstg Net, Davao C 9501 – Ow: Jesus B. Paquing.
85) Tagum Commty Development Corp, National Hwy, Tagum, Dvo Nte 9401 – SM: Versim Enad. TD: E.M. Anilao – Prgrs in Visayan dialect.
86) Times Bcstg Sys, Diamond Bldg, Marcos Ave, Ozamis C 9101 – GM: Emilio Sy. SM: Jul. Mecaros. TD: Flor Gloria.
87) Trans-Radio Bcstg Corp, 2nd Flr, J&M Bldg, 7848 Makati Ave, Makati, Riz 3117.
88) United Bcstg Net, 4th Flr, Ambrosio Bldg, Buendia and Bautista Str, Makati, Riz 3117. Ow: Q. Rebueno Hodreal.
89) U of Mindanao Bcstg Net, Suite 709, Sikatuna Bldg, Ayala Ave, Makati, Riz 3117 – Pres: Guillermo E. Torres.
90) U of San Agustin, U of S Agusttin Compound, Luna Str, Iloilo C 5901 – Dir: Enrique P. Campos.
91) U of the Philippines, Dept. of Speech and Drama, Diliman Campus, Quezon C 3004 – SM: Rancisco Trinidad, PD: Leticia Tison.
92) Vanguard R. Net, 2nd Flr, J&T Bldg, Magsaysay Blvd, Santa Mesa, Manila 2806 – Ow: Manuel G. Galvez Jr. TD: Arsenio M. Ignacio.
93) Victory Bcstg Sys, Cabanatuan C 5301.
94) Subic, Zambales 2201.
95) Vimcontu Bcstg Sys, Visaya-Mindanao Confederation of Trade Union, Associated Labor Union Bldg, Quezon Blvd, Port Area, Cebu C 6401.
96) Voice of the South, Claret Coll Bldg, Roxas Ave, Isabela, Basilan C 7831 – Dir: Angelo Calvo.
97) Western Bcstg Co, Bo Lo-oc, Mandawe C 6433 – Ow: M. Lee.
98) Universal Bcstg Sys, Tagbilaran Hotel, Juan Luna Str, Tagbilaran, Boh 6301 – Ow: Juanito A. Viado.
99) Erna Cruz, Suites 408 & 409, Chateau Makati Bldg,

Makati, Rizal.

American Forces Philippines Network (AFPN).
6204th Aerospace Support Squadron (6204AEROSS), Clark US AFB, Pampanga (APO San Francisco, CA 96274 USA).
Te: 732-4291.
Lt.Col. James L. O'Leary, Dir. 13th Air Force Office of Info; Maj. John W. Volpel, Commander 6204AEROSS; Lt. Eric F. Willenbrock USN, PD; GS-12 S. Charles Campione, TD.
Stations (24h): 1300kHz Camp John Hay Air St, Benguet (Baguio C) 0.25kW. 1300kHz Wallace Air St, Poro Point, La Union 0.025kW, 1300kHz Subic Bay Naval Base, Zambeles (Olongapo C), 0.25kW, 1510kHz Naval Communications. St. Zunbales (San Antonio) 0.25kW, 1510kHz Clark AFB, Pampanga (Angeles C).
+FM st's on 94.0MHz (0.05kW).
N: Every h, on the h: 5 Min.

VOICE OF AMERICA RADIO STATION PHILIPPINES

ADDR: Voice of America, Washington DC 20547, USA. **Poro:** 1×1000kW MW-tr, 2×100kW, 3×50kW and 2×85kW SW-tr's – **Tinang:** 10×250kW and 3×50kW SW-tr's.
STATIONS: Mediumwave: Poro A: 1140kHz 1000kW: 1200-1500. **Shortwaves:** Poro: 2200-0230, 0800-1600; Tinang 2130-0330, 0800-1700.

Nov-Feb		Mar-Apr	
kHz	**Times**	**kHz**	**Times**
5955	1400-1500	1140	1300-1500
	1530-1700	5955	1400-1700
6020	1300-1500	6020	1300-1500
6075	1330-1600	6075	1330-1600
6095	2200-2300	6095	2200-2300
6110	1100-1600	6110	1100-1600
	2130-2200		2130-2400
	2230-2400	6160	1200-1600
6160	1000-1600	6185	2200-2400
6185	2200-2400	7135	2200-0030
7135	2200-0030	7155	1000-1600
7155	0800-1600	7160	2130-2200
7160	2130-2200	7195	1300-1500
7190	1300-1500	7200	2230-2330
7200	2230-2300	7205	1330-1600
7205	1330-1700	7210	1600-1700
7240	1300-1500	7240	1300-1500
7275	1100-1600	7275	1000-1600
	2230-2300	9530	1300-1500
9530	1300-1500	9545	2200-0100
9545	2200-0100	9555	0800-1600
9555	0800-1300	9605	2230-2330
9605	2230-2330	9625	1500-1700
9625	1530-1700	9630	1330-1530
9630	0800-1300	9650	2130-2400
	1330-1530	9760	1100-1600
9650	2130-2200	9770	2200-0030
	2230-2400	11715	1000-1500
9725	1330-1500	11760	2200-0030
9760	1100-1600	11805	2230-2330
9770	2200-0030	11815	0130-0230
11715	1000-1500	11830	2130-2200
11760	2200-0100	11880	2230-2330
	0100-0330	11930	0800-1530
11805	2230-2330		2200-0030
11815	0130-0230	11965	0800-1600
11830	2130-2200		2330-2400
11865	0800-1000	15220	0100-0330
11880	2230-2330	15250	0800-1000
11930	0800-1015		1100-1300
	1030-1300		1400-1500
	2200-0030	15290	2200-0100
11965	0800-1300	15345	0800-1100
15220	0100-0330	15405	0130-0230
15250	1100-1300	15410	0800-1130
	1400-1500	17790	0100-0330
15290	2200-0100	17800	0130-0230
15345	0800-1100		
	0130-0230		

D.PRGR: Mediumwave: 1140kHz 1200-1500 Vietnamese. **Shortwave:** See USA.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from the Philippines" – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs – **V.** by QSL-card. No Rp.

SINGAPORE

L.T: GMT+7½h – **Pr.L:** Malay, Chinese, Tamil, English. **E.C:** a/c 50, 230/400V (yes).

RADIO SINGAPORE (Gov.)

ADDR: Dept. of Broadc, Broadcasting House, Caldecott Hill, Singapore 11. **Te:** 50401. **Cable:** Broadcasts.
L.P: Dir. of Broadc: Mrs. Wong-Lee Siok Tin. Chief Eng: G. Ang. Contr(Prgr.Adm): V.C. Palmer. Comm. Mgr: R.T.H. Huang. Contr(Radio): Mrs. Maureen Liew. Contr(Sce's): J. Seah Kim Hock. Research Officer: Mrs. Jenny Neo.

STATIONS (G.C: 103.42E/01.20N): *) Multilingual; E=English; C=Chinese; M=Malay; T=Tamil.

kHz	kW	Prgr	kHz	kW	Prgr	kHz	kW	Prgr
630	20	E	5010	10	E	7170	10	C/T
680	20	C	5052	20	E	7250	7.5	M
790	100	*)	6000	10	C	9635	50	C
990	20	M	6155	50	M	11940	50	E
1370	20	C/T						

FM (all 10kW ERP): 92.4MHz (E), 94.2MHz (M), 95.8MHz (C), 96.8MHz (T).
HOME SCE: English: 2230-1630 on 630/5010 (test)/5052/11940kHz+FM. **N:** 2330, 0030, 0600, 0930, 1030, 1130, 1330, 1530.
Malay: 2130-1630 on 990/6155/7250kHz+FM. **N:** 2345, 0045, 0530, 0930, 1030, 1145 (on 790kHz only), 1345, 1515.
Chinese: 2130-1630 on 680/6000/9635kHz+FM. **N:** Mandarin 2345, 0545, 0930, 1030, 1145. Chinese dialects: 0045, 0500, 1245, 1345; 1330-1630 on 1370/7170kHz. **R.** 1400, 1500. **Tamil:** 2130-1330 on 1370/7170kHz+FM. **N:** 2330, 0030, 0600, 0930, 1100, 1300.
Multilingual Sce: 1030-1630 on 790kHz: Tamil 1030-1130 (N 1100), Malay 1130-1300 (N 1145), Chinese 1300-1445 (N 1345), **English** 1445-1630 (N 1530).
FM (stereo): 92.4MHz: 2230-0130, 1030-1530.

ANN: E: "This is R. Singapore". M: "Inilah R. Singapurá". **V.** by QSL-card. Rp. Rec. acc – **PUB:** "Fanfare" and "TV and Radio Magazine" – **FI:** by Gov. and Radio Licenses – **ALF:** S$12.00 – (6 studios).

BBC FAR EASTERN STATION

STATION: 88.9MHz 5kW.
D.PRGRS in English (relay of WS): 2300-0030, 0900-1615(Sat 1745).
INT-SIG: WS-tune: Oranges & lemons.

SRI LANKA (Rep. of)

L.T: GMT+5½h – **Pr.L:** Sinhala, Tamil, English.
E.C: a/c 50, 230V (yes).

POSTMASTER GENERAL AND DIRECTOR OF TELECOMMUNICATIONS, Colombo. Cable: Gentel.

Te: 28301.
L.P: Postmaster Gen. and Dir. of Telecommunications: A.R.M. Jayawardena.

SRI LANKA BROADCASTING CORPORATION (Public Corporation)

ADDR: P.O. Box 574, Colombo-7. (Commercial Sce: P.O. Box 1510). **Cable:** Radceylon. **Te:** 92281.
L.P: Chmn and Dir.Gen: W.R.P. Tillekeratne. Dir. Engineering: D. Buell. Dir. Sinhala Sce: H.M. Gunasekera. Dir. Tamil Sce: K.S. Nadarajan. Dir. English Sce: J. Bharucha.

STATIONS: Mediumwaves
* tests.

Location	kHz	kW	Location	kHz	kW
Diyagama	558	20	Senkadagala	820	0.25
Senkadagala	570	10	Amparai	*860	—
Weeraketiya	600	50	Diyagama	890	20
Diyagama	620	20	Diyagama	920	25
Maho	640	50	—	*975	—
Diyagama	700	50	Jaffna	*990	—
Anuradhapura	780	10	Galle	1310	10

Shortwaves

kHz	kW	kHz	kW	kHz	kW
3395	10	6005	10	9720	35
4870	10	6075	10	11800	100
4902	10	6130	10	11835	35
4940	10	6150	10	15120	35/100
4968	10	6185	10	15425	100
5020	10	7190	10	17850	35

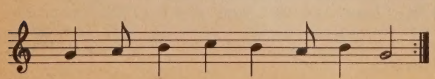
CHANNEL ONE
Sinhala: 0015-0230, 1030-1715 on 570/600/640/700/4902kHz (also test on 860kHz); Sat/Sun 0230-0630 on same MWs+7075kHz – Special All Night Sce on Full Moon Days: 0930-0015 on same MWs+4902kHz – **FM:** 98.3MHz.
Ann: "Me Sri Lanka Guwan Viduli Sansthave Sinhala Palamuvani Sevayai".
Tamil: 0030-0300, 1230-1700 on 558/5020kHz (also test on 990kHz); Sat/Sun 0300-0630 on 558/6150kHz – **FM:** 108.7MHz.
Ann: "Elangai Oliwarathu Kootuthapanam Tamil Chevaya ondu".
English: Mon-Fri 1330-1730 on 890/4968kHz; Sat/Sun 0430-0730 on 890/6005kHz; 1230-1730 on 890/4968kHz – **FM:** 105.65MHz. **Education Sce:** Mon-Fri 0235-0710 on 570/600/640/700/6075kHz, 1125-1325 on same MWs, 4968kHz.
Ann: "This is the Sri Lanka Broadc. Corp. Channel One of the English Sce".

CHANNEL TWO
Sinhala: 0015-1730 on 620/820kHz; 0015-0330, 0530-0730, 1130-1730; Sat/Sun 0015-0730 on 780/1310kHz; 0015-0300, 1030-1730 on 3395/4870kHz, 0300-1030 on 6185kHz – **FM:** 88.3MHz.
Ann: "Me Sri Lanka Guwan Viduli Sansthave Sinhala Devani Sevayai".
Tamil: 0030-0300 on 890/4968kHz; 0300-0430 on 890/6005kHz. 0630-1030 on 558/6150kHz, 1030-1230 on 558/5020kHz (also test on 990kHz) – **FM:** 105.65/108.7MHz.
Ann: "Elangai Oliwarathu Kootuthapanam Tamil Chevaya rendu".
English: 0030-0300, 1130-1730 on 920/4940kHz; 0300-0330, 0730-0930 on 920/6130kHz; Sat/Sun 0030-0300, 1030-1730 on 920/4940kHz; 0300-0430, 0730-1030 on 920/6130kHz (also test on 975kHz) – **FM:** 98.3MHz.
N. In English: 0115, 0200, 0745, 1245, 1545, 1700.
Ann: "This is Channel II of the English Sces".

ALL ASIA SERVICE
Hindi: 0030-0430 on 7190/11800kHz; 0630(Sun 0430)-0830 on 7190/11835/15120kHz.
Tamil: 1100-1330 on 6075/11835kHz. On 7190/11800kHz; 0830-1100(0830 Kannada, 0900 Telugu, 1000 Malayalam).
English: 0030-0230 on 6005/9720/15425kHz; 0230-0430 on 9720/15425kHz; 1230-1730 on 7190/9720/15425kHz.
DX-prgr: "Radio Monitors International": Sun 1350-1400 – Carries also "Adventist World R" prgrs.
Ann: "This is the All Asia Sce of the Sri Lanka Broadc. Corp".

SOUTH EAST ASIA SERVICE in English
1030-1130 on 11835/15120/17850kHz.

EUROPEAN SERVICE in English
1900-2000 on 7190/9720/11800kHz.
INT-SIG all services: National drums (Magul Bera) and Buddhist stanza set to music (Jayamangala Gatha) – **V.** by QSL-card. Re. to J.A. Herath, Superintendent Engineer – **PUB:** Monthly Prgr. Guide printed separately in Sinhala, Tamil, English.



VOICE OF AMERICA RADIO STATION COLOMBO
ADDR: Voice of America, Washington DC 20547, USA.
STATIONS: Colombo (G.C: 79.54E/07.06N): 3×35kW SW-tr's.

Nov-Feb		Mar-Apr	
kHz	Times	kHz	Times
7110	0100-0330	7110	0100-0330
	1300-1800		1300-1800
9670	1300-1800	11715	1500-1800
11935	1300-1500	11740	0100-0330
15185	0100-0330	11935	1300-1500
		15150	1300-1800
		15185	0100-0330

D.PRGR: English: 0100-0330, 1300-1800. **Urdu:** 0200-0230, 1430-1500. **Hindi:** 1530-1600.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from Washington DC" – **INT-SIG:** Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs – **V.** by QSL-card. No Rp.

TRANS WORLD RADIO
First tests to begin in February 1977 over a 400kW MW-tr. Freq. not finalised (but reported to be 890kHz). Languages used will be Indian and So. Asian languages (exc. English, Sinhala and Tamil).

THAILAND

L.T: GMT+7h – **Pr.L:** Thai – **EC:** a/c 50, 110/190 or 220/380V (no).

DIRECTOR GENERAL, POST & TELEGRAPH DEPARTMENT Bangkok 5. **Cable:** Telepost.
L.P: Dir.Gen: S. Sukhanetre.
STATIONS: All sts are operated by Gov. agencies and/or under the supervision of the Gov. Number of licensed sts in 1976: 142.
Mediumwaves (°=shortwaves, cp=construction permit, nf=nominal frequency, N=Nahkon, U=Ubon): *=inactive.

	kHz	kW	Location		kHz	kW	Location
1)	540	10	Bangkok	6)	710	20	Bangkok
2)	555	10	Bangkok (nf 550)	13)	715	10	Lopburi (nf 700)
3)	560	10	Chaiyaphum	3)	720	10	Chiang Mai
4)	570	10	Bangkok	6)	720	10	Songkhla
5)	580	20	Prachinburi	10)	725	55	N.Ratchasima (nf 740)
6)	590	10	Khon Kaen				
6)	590	10	Chumphon	14)	730	20	Bangkok
7)	600	20	Bangkok	15)	750	10	Bangkok
8)	610	20	Lopburi	4)	770	10	Udon Thani
9)	620	10	Bangkok	8)	780	20	Lopburi
10)	630	55	Khon Kaen	2)	785	20	Bangkok (nf 790)
10)	640	1	Phuket				
10)	640	1	Yala	16)	800	10	Chiang Rai
10)	640	10	N. Si Thammarat	1)	800	5	Lopburi
10)	640	50	Prachinburi (cp)	1)	800	3.5	N.Ratchasima
3)	650	10	Bangkok	1)	800	5	Prachuap Khiri Khan
11)	660	20	Bangkok				
11)	660	20	Chiang Mai	1)	800	5	U. Ratchathani
10)	674	10	Bangkok (nf 670)	10)	810	10	Khon Kaen
				10)	810	10	Trang
2)	685	20	Saraburi (nf 680)	10)	°830	100	Bangkok
				10)	856	10	Bangkok
12)	695	10	Bangkok (nf 690)	17)	860	50	Sakon Nakhon
				10)	870	10	Bangkok
6)	705	20	Chiang Mai (nf 710)	10)	880	10	Tak
				2)	890	20	Chonburi

	kHz	kW	Location
4)	900	1	Chiang Mai
10)	910	10	Bangkok
10)	910	50	Surin
10)	°923	10	Bangkok (nf 920)
5)	930	1.5	Pattani
1)	940	5	Udon Thani
1)	940	5	Phitsanulok
1)	940	5	Chathaburi
1)	940	5	Nakhon Sawan
1)	940	5	Bangkok
16)	940	1.1	Maha Sarakham
4)	950	10	N. Ratchasima
18)	960	10	Bangkok
6)	970	10	Chiang Mai
10)	980	10	Bangkok
10)	980	5	Mae Hong Son
10)	980	50	Yala
10)	980	10	N. Phanom
15)	1000	2.5	Bangkok
15)	1020	20	Bangkok
10)	1030	50	Phitsanulok
10)	1030	10	Yala
3)	1040	10	Khon Kaen
5)	1050	10	N. Sawan
12)	1060	10	Chonburi
5)	1070	10	N. Si Thammarat
16)	1080	20	Bangkok
6)	1090	10	N. Sawan
6)	1090	10	Yala
14)	1100	20	Bangkok
14)	1100	20	Chiang Mai
4)	1110	10	Songkhla
12)	1120	10	N. Phanom
10)	1130	50	Chanthaburi
10)	1140	10	Lampang
19)	1150	20	Bangkok
4)	1166	20	Bangkok (nf 1160)
12)	1170	10	Chanthaburi
20)	1180	10	Bangkok
21)	1190	10	Sakon Nakhon
22)	1200	10	Bangkok
5)	1200	5	Chiang Rai
10)	1210	50	Surat Thani
10)	1210	2	Chiang Mai
21)	1220	10	Phrae
3)	1230	10	Sri Saket
6)	1230	10	Udon Thani
3)	1240	10	Roi Et
10)	1256	50	Chiang Rai (nf 1250)
16)	1268	10	Bangkok (nf 1260)
3)	1270	10	N. Si Thammarat
6)	1270	10	U. Ratchathani
11)	1270	20	Songkhla
23)	1280	25	Bangkok
6)	1290	10	Chiang Rai
3)	1290	10	N. Si Thammarat
2)	1300	10	Bangkok
11)	1310	20	Khon Kaen
1)	1320	5	Songkhla
1)	1320	5	Chonburi
1)	1320	5	N. Pathom
16)	1320	10	Chiang Mai
24)	1330	10	Bangkok
10)	1340	50	U. Ratchathani
10)	1340	10	Loei
6)	1350	10	Trang
21)	1350	10	Surin
5)	*1350	10	Lampang
18)	1360	10	Bangkok
10)	1370	1	Surat Thani
10)	1370	50	Nan
10)	1370	1	Chumphon
22)	1380	10	Phitsanulok
17)	1390	10	Chiang Rai
3)	1400	10	Yaso Thon
15)	1410	10	Bangkok
4)	1420	10	Phitsanulok
12)	1430	10	Songkhla
6)	1440	10	Bangkok
8)	1450	5	Lopburi
17)	1450	10	Narathiwat
12)	1460	10	Phuket
14)	1470	20	Bangkok
14)	1470	20	Khon Kaen
10)	1480	100	Chiang Mai
3)	1490	10	Surat Thani
3)	1490	10	Sri Saket
19)	1500	20	Bangkok
3)	1510	10	Chiang Rai
25)	1520	10	Bangkok
6)	1530	10	Uttaradit
2)	1540	10	Udon Thani
2)	1550	20	Phetchaburi
18)	1560	10	Bangkok
10)	1600	1	Buriram
10)	1600	1	Ranong

Shortwaves: Bangkok: **kHz kW**

10)	4830	10	26)	6510	10	10)	9655	100
10)	6070	10	10)	7115	10	10)	11905	50

Other information: Abbreviated short names, e.g. Thor Thor Thor, serve as station ann. if preceded by "Thiini . . ." ("Here is . . ."). Full name, given in brackets, is usually preceded by "Thiini, Sathani Withayu Krachaisiang . . ." ("Here is R. St . . ."). **Numerals,** preceded by "Thii" ("number") are: 0 soon, 1 nung, 2 song, 3 saam, 4 sii, 5 ha, 6 hock, 7 jed, 8 pat, 9 kao, 10 sip.

10) **Sathani Withayu Krachaisiang Hang Prathet Thai – Radio Thailand.**

ADDR: Government Public Relations Dept, Rajdamnern Av, Bangkok-2 – Dept.Dir.Gen: R. Vadhanapanich. Dep.-Dir.Gen: K. Keepanich. Dir.R.Thailand: D. Sriyabhai. Head Home Sce: P. Thammathiti. Head Ext. Sce: Mrs. Somchit Siddichai.

HOME SCE: On 830/4830/6070/7115kHz: 2330-1600. (Sign on and off times may vary for reg. outlets). **N.** at 2300, 1300 are relayed by all sts in the country.

EXT. SCE: On 923/9655/11905kHz: **English** 2330-0155, 0415-0515(to No.America), 1055-1155(to So.Ea.Asia); **French** 0520-0550, **Lao** 0915-1000, **Chinese** 1000-1030, **Thai** 1035-1055, **Vietnamese** 1200-1230, **Khmer** 1230-1300, **Malay** 1305-1350, **Burmese** 1355-1425.

F.PL: Sts. under construction in following provinces: Prachinburi, Phang Nga, Satul, Karnchanaburi and Nong Khai.

1) **Thor Or** (Khongbin Yuthakarn, Khongthap Akart), Royal Thai Air Force, Air Operations Command.

2) **Yan Kraw (Siang Adison),** Armoured Car School, Samsen Rd, Bangkok.

3) **Jor Sor** (Khong krom kan Thahan Suesarn), Army Signal Corps, Spandang, Bangsue, Bangkok.

4) **Sor Wor Por** (Siang chak Wang Parus), Police Dept, Parusakawan Palace, Bangkok. 1166kHz: **Sor Sor Sor** (Siang Samyod), 509 Vorachak, Bangkok.

5) **Mor Thor Bor** (Mon Ton Thahanbok), Military District. 580kHz: Siang chak Kai Chakkarpongse, Prachinburi.

6) **Wor Phor Thor** (Khong krom kan Krachaisiang Phalangaan Thahaan Suesarn, Kongthapbok), Defence Energy Dept, Phetburi Rd, Bangkok.

7) **Por Thor Or** (Kongphol Puen Thor Sue Akart Thayan), Army Anti-aircraft Artillery Div, Thahaan Rd, Bangkok.

8) **Wor Sor Por** (Withayu Soon Thahaan Puenyai), Army Artillery Centre, Lopburi.

9) **Suan Missakawan** (Mor Thor Bor thii 1, Krom kan Thahaan Sarawat thii 1), 1st Command, Amnuai Songkram Rd, Bangkok.

11) **Mor Kor** (Kan Kraset, Mahavittayalai Kasetsart), Kasetsart University, Soi Aree, Phaholyothin Rd, Bangkhen, Bangkok.

12) **Sor Thor Ror** (Siang chak Thahaan Rua), Voice of the Navy, Royal Thai Navy, Sukhumvit, Bangna, Bangkok.

13) **Chor Tor Lor,** Lopburi Military District, Lopburi.

14) **Ror Dor** (Raksa Dindaen), Territorial Defence Dept, Sanamachai Rd, Bangkok.

15) **Neung Por Nor** (Khong krom Praisanee Tholalek), Post & Telegraph Dept, Wat Liab, Bangkok.

16) **Thor Or** (Krom kan Suesarn Thahan Akart), Air Force Communications Dept, Bangkok.

17) **909 Kor Ror Por Klang** (860kHz), **912 Kor Por Por Klang** (1450kHz), **914 Kor Ror Por Klang** (1390kHz), Central Security Division, Bangkok.

18) **Phol thii 1** (Kong Buncha kan Kongphol thii 1), 1st Infantry Div, Sri Ayuthaya Rd, Bangkok.

19) **Thor Thor Thor** (Sathani Witthayu Thoratad hang Prathet Thai), Thai TV Co. Ltd, Soi Aree, Paholyothin Rd, Bangkok 4.

20) **Wor Sor Sor** (Witthayu Suksa), Ministry of Education, Bangkok.

21) **Kor Wor Sor,** Royal Thai Army. Sts: Kor Wor Sor-1 1350kHz, Kor Wor Sor-2 1220kHz, Kor Wor Sor-3 1190kHz.

22) **Wor Por thii 4** (Kong Buncha kan Kongphol thii 4), 4th Infantry Div, Phitsanulok.

23) **Kor Sor Tor Bor** (Krom kan Konsong Thahanbok), Army Transportation Dept, Pradipat Rd, Bangkok.

24) **Or Sor** (Umporn Sathan), Royal Household St, Chitra Lada Palace, Bangkok.

25) **2-0, Sathani Khao Lae Pleng,** Station 2-0, Office of the Prime Minister, Bangkok.

26) **Meteorological Dept,** Telecommunications Div, 6121, Sukumvit Rd, Bangkok 11 – **English** 15 mins past the h. exc. 0215, 0515, 1215. Prgrs consist of Weather & Shipping N. and Thai music.

N.B: Reports. Geographical locations given refer to provinces ("Changwat"). Sts are not always located in the provincial capitals but in a local district ("Amphur"). However, a report to a provincial station is known to reach its destination even if the "amphur" is unknown. Typically, "Sathani Witthayu Krachaisiang Jor Sor thii 3, Changwat Roi Et" will do for an address if reporting st. 3) on 1240kHz.

VOICE OF FREE ASIA

ADDR: For R. Thailand programmes: Public Rel. Dept, Bangkok. For VOA programmes: Voice of America, Washington DC 20547, USA.

STATION: Ban Pachi 1580kHz 1000kW.

D.PRGR: 2230-2330 (R. Thailand), 0900-1000(Sat/Sun) & 1000-1130 daily (R. Thailand), 1130-1200 **English** (VOA), 1200-1300 Lao (VOA), 1300-1330 (R. Thailand), 1330-1430 Khmer (VOA), 1430-1600 **English** (VOA), 1600-1700 Bengali (VOA).

ANN: "This is the Voice of Free Asia" – **V.** by letter and QSL-card.

VIETNAM (Socialist Rep. of)

L.T: GMT+7h – **Pr.L:** Vietnamese.

NORTH

VOICE OF VIETNAM (Gov.)

ADDR: 58 Quán Su Street, Hanoi. **Te:** 4134.
L.P: Dir.Gen: Tran Lam. Dep.Dir.Gen: Nguyen Van Nhat.
STATIONS
Most freqs seem to vary.

Location	kHz	N	Times
Hanoi	587	I	0001-1400
Viet Bac	750	R	—
Tay Bac	790	R	]
Hanoi	803	II	2245-1600
Hanoi	830	II	2245-1600
Hanoi	1010	I	2055-1600
Hanoi	1240	FS	
Hanoi	3997	I	2055-2400, 1230-1600
Viet Bac	4032	R	2330-0200,1130-1400
Hanoi	4713	II	2245-1600
Tay Bac	4770	R	0930-1430
Hanoi	4860	FS	
Hanoi	4932	I	2055-1600
Hanoi	4994	II	2245-1600
Tay Bac	6335	R	0200-0400,0930-1430
Hanoi	6425	II	2245-1600
Hanoi	6450	I	2055-1600
Viet Bac	6720	R	2330-0200,1100-1400
Viet Bac	6908	R	
Hanoi	7080	ES	0001-1400
Viet Bac	7260	R	2330-0200,1130-1400
Hanoi	7375	I	2055-1600
Hanoi	7417	II	2245-1600
Hanoi	7470	II	2245-1600
Tay Nguyen	7512	R/FS	2300-2400,0100-0130, 0330-0500,0900-1630
Hanoi	9448	I	2055-1600
Tay Bac	9645	R	0200-0400,0930-1145
Tay Nguyen	9840	R/FS	as 7512kHz
Hanoi	9887	II	2245-1600
Hanoi	10010	FS	1115-1600
Hanoi	10040	FS	
Hanoi	10060	I	0100-1600
Hanoi	10225	II	2245-1600
Hanoi	12035	FS	
Hanoi	15012	FS	

Networks: I=1st Prgr; II=2nd Prgr; R=Regional Sts; FS=Foreign Sce.

HOME SERVICES (incl. prgrs to So. Vietnam)
1st Prgr. in Vietnamese:: as above.
2nd Prgr. in Vietnamese: Mainly language lessons.
Regional Stations: as above.

FOREIGN SERVICE (from Hanoi):
Frequencies: I=4860/7512/9840kHz; II=10040/12035kHz; III=12035/15012kHz; IV=1240/10040/12035kHz; V = 800/830/4994/6425/7470/10010kHz; VI = 1010/4000/4932/6540/7080(0001-1400)/7375/10060kHz.

Cambodian	Area
0100-0130	I
0330-0400	
0900-0930	
1100-1130	
1330-1400	
1600-1630	
2300-2330	
Cantonese	
0000-0100	I
0400-0430	II
1430-1500	II
English	
0100-0200	IV
0900-0930	III
1000-1030	II
1300-1330	IV
1600-1630	IV
1800-1900	II

French	Area
0230-0300	II
0430-0500	II
1330-1400	II
1900-1930	II
Indonesian	
0030-0100	II
1030-1100	II
1230-1300	I
Japanese	
1200-1300	III
1500-1600	III
2200-2300	II
Korean	
2130-2200	II
Laotian	
0400-0500	I
0930-1100	I
1400-1430	I
2330-2400	I

Malay	Area
0001-0030	II
0930-1000	II
1200-1230	I
Russian	
0300-0330	II
1630-1700	II
Spanish	
0200-0230	II
1100-1130	II
St. Chinese	
0330-0400	II
1130-1200	I
1400-1430	II
2300-2330	II
1500-1600	9840

Thai	Area
0500-0530	II
1130-1200	II
1300-1330	I
1430-1500	I
2330-2400	IV
1600-1630	9840
Vietnamese	
0130-0330a	I
0800-0900a	I
1115-1600b	V
1530-1600	I
1700-1800	II
2115-1715c	VI
2245-0100b	V

a) not Sun. Dictation speed – b) 1st Netw. relay to So. Vietnam – c) 2nd Netw. relay to So. Vietnam.

ANN: Home Sce: "Dây là Tiếng nói Viêt Nam, phát thành tù Hanôi". **Foreign Sce:** E: "This is the Voice of Vietnam, broadcasting from Hanoi" – **V.** by QSL-card. Prgr. schedules, pamphlets, etc. free.

SOUTH

VOICE OF VIETNAM (Gov.)

ADDR: 7 Xo Viet Nghe Tinh Street, Ho Chi Minh City (via Hanoi).
STATIONS: Ho Chi Minh City

kHz	kHz	kHz	kHz	kHz
720	870	6165	7245	9620

Home Sce: 2200-1605 in Vietnamese. **N.** (from Hanoi) 2300, 0400, 1100, 1430; (from South) 2345, 0245, 0500, 1215.
Hanoi Relay: continuously on 720kHz.
ANN: "Dây là Tieng nói Viêt-Nam, chuóng trình. . . Viêt-Nam, phát tù thành-pho Ho Chi Minh". E: "This is the Voice of Vietnam, prgr. . . . . broadc. from Ho Chi Minh City".

Quang Ninh Provincial Station
Station: 4703kHz: 2330-2400, 1200-1230.
Ann: "Dây là Dai Vung Tinh Quang Ninh".

Voice of the People of Ho Chi Minh City
Addr: Ho Chi Minh City People's Committee, Ho Chi Minh City (via Hanoi)
Station: 610kHz.
Ann: "Dây là Tiếng Nòi Nhân Dàn Thành-Phõ Ho Chi Minh".

Time-announcing and Music Station of Ho Chi Minh City
Operated by the Military Management Committee of the Ho Chi Minh City Television Station.
Addr: 12 Cuong De Street, Ho Chi Minh City (via Hanoi).
Station: 99.9MHz: 2300-1700, with time checks every h. on the h; news highlights and Vietnamese and International music.

Co-operators and Monitors
(from page 211)

Pa. 19111 – Charles A. Taylor, 936 N. Temple Ave, Indianapolis, Ind. 46201 – Roger Legge, Box 232, McLean, Va. 22101 – Scott Reeves, 16506 Forest Mill Court, Laurel, Md. 20810.
Venezuela: Carlos E. Bravo, Quinta Lolin, Calle Andromeda, El Peñon, Caracas 108 – Alfredo Herrera, Ap. 31, Carora, Lara.
Yugoslavia: Svetomir M. Cuckovic, Kosancicev Venac 4, 11000 Belgrade.

Does your friend know about the fascinating world of radio?

Open his eyes to a new world by sending him a **WRTH 1977.**

THE FINNISH DX ASSOCIATION

The Finnish DX Association is the national DX organization in Finland. With almost 2,-000 members in its three member clubs the FDXA is among the leading DX organizations in the world.

Finlands DX-Club rf (founded in 1954) is the club for Swedish-speaking Finns. **Suomen DX-Kuuntelijat ry** (founded in 1958) is the club for Finnish-speaking Finns. **The Friendly DX Club ry** (founded in 1967) is for English-speaking DXers. It has members in almost 30 countries all over the world. A mail order service, **DX-Palvelu Oy,** is run by the FDXA to provide the members with the necessary DXing equipment.

The FDXA publication programme includes two publications:

DX-Kuuntelija is a typeset, richly illustrated and quality-printed offset magazine. Expert articles are published in Finnish, Swedish and English. The magazine comes out 10 times a year with about 40 large pages each time. A fresh news and loggings bulletin of 16 pages is included in the magazine. The only DX magazine of its kind!

DXclusive is a fortnightly rapid news bulletin for the super-active DXer.

Other FDXA activities include:

Finn DX, the weekly DX programme of Radio Finland, produced by the FDXA. This programme is broadcast every Tuesday in the English-language transmissions of Radio Finland.

15th FDXA Summer Meeting. This traditional DXers' gathering will be held on August 5-7, 1977. All DXers from Finland and abroad are warmly welcomed. Write for more details!

For further information, write to:

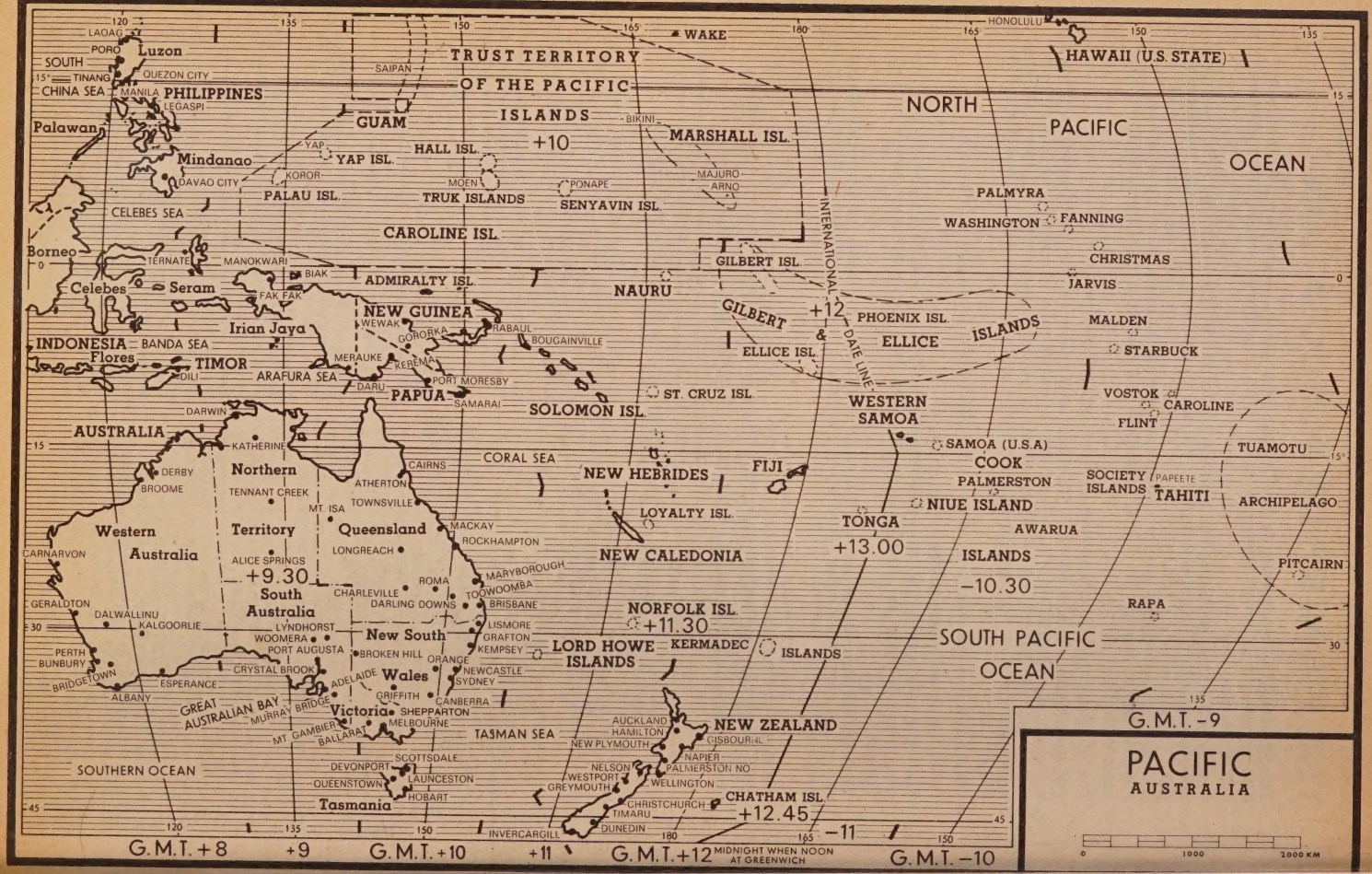
THE FINNISH DX ASSOCIATION, P.O.B. 454, SF-00101 Helsinki 10, Finland.

THE FRIENDLY DX CLUB, P.O.B. 214, SF-00101 Helsinki 10, Finland.

CO-OPERATORS & MONITORS

Argentina: Carlos Maslatón, Gutenberg 3276, Buenos Aires – J.A. Sabater, Casilla 533, 5500 Mendoza.
Australia: Bob Padula, 404 Mont Albert Rd, Surrey Hills, Vic. 3127 – Craig Tyson, 18 Reserve Str, Wembley, WA 6014 – David Foster, 17 Stevenson Str, Kew, Vic 3101 – Robert Hanner, 11-A Jupiter Str, South Cauifield, Vic. 3162 – Robert Yeo, 49 Ayr Str, Doncaster, Vic. 3108.
Bangladesh: A.E.M. Abdullah, F-905, B. Mohon Park, Ghoramara, Rajshahi.
Brazil: Gilberto A. Santos, Rua Pareto 20/204, 20000 Rio de Janeiro, GB-ZC09 – Luiz Roberto de Medina, Caixa Postal 30, 30000 Recife – Robert Veltmeijer, Largo do Arouche 418, Apto. 56, São Paulo 01219.
Colombia: José M. Rangel Neira, Apt. Aéreo 1361, Cucuta.
Costa Rica: Charles Denyer, Apartado 2577, San José.
Denmark: Finn Krone, Hovedvejen 106, 2600 Glostrup – Erik Køie, Ejbydalsvej 71, 2600 Glostrup – Poul Foged, Kærgården 8, 2620 Albertslund – Jens S. Jensen, Engboulevarden 13, 8900 Randers.
Dominican Republic: Cesar Obíjo, Calle Enrique Henriques 69, Santo Domingo.
France: Bernard Chenal, 22 rue des Fabriques, F-68200 Mulhouse – Pierre Micoud, 10 Ave. de Menival bat 1C, 69005 Lyon – Louis Foratier-Masetti, Place de la Mairie, F-44360 St. Etienne de Montluc – Daniel Contenceau, 49 Ave. de Stalingrad, F-93170 Bagnolet.
Germany: Gerd Klawitter, D-4430 Steinfurt, Ochtruper Str. 38 – Thomas Drescher, D-5352 Zülpich, Antoniusstr. 37 – Hermann Jäger, D-6745 Offenbach/Pfalz, Im Pfeiff 5.
Great Britain: Dr. John Campbell, Research Centre, Kings College, Cambridge CB2 1ST – Noel R. Green, 14 Marsden Rd, Blackpool, Lancs. FY4 3BZ – David J. Sapsford, 44 Melbourne Way, Bush Hill Park, Enfield EN1 1XF.
Greece: A.L. Coundakis, 39 Adramyttiou Str, New Smyrna, Athens.
Holland: W.P.A. Martijn, Rijnsburgerweg 9-A, Leiden 2405.
India: Alok Das Gupta, 26/1 Northern Avenue, Calcutta 700 030 – Sudipta Ghose, 311/3 Maharaja Nanda Kunar Rd, So. Baranagar 700 036 – A.J. Sampath, 3-6-117 Himyatnager, Hyderabad 500 029.
Israel: Berd Bluman, P.O. Box 26386, Tel Aviv – Offer Barth, P.O. Box 7125, Haifa.
Italy: Elio Fior, Via Apriari 7, I-34135 Trieste.
Japan: Takahito Akabayashi, Tenjincho 2-9-7, Fuchu City, Tokyo 183 – Kimio Masumoto, 890-30 Kamigo Totsuka, Yokohama – Hiroyuki Nagase, P.O. Box 93, Ushigome P.O. Tokyo 162 – Nobuaki Takahashi, P.O. Box 37, Koishikawa, Tokyo 112.
Kuwait: Dr. A. Fadel, Helali Str, Merkab, Kuwait.
Mexico: Alejandro Díaz González Ulibarri, Calle Compas 36, Mexico 8, DF.
New Zealand: Arthur T. Cushen, 212 Earn Str, Invercargill.
Norway: Knut Bjørkmann, Olaf Schousvei 15, Oslo 5.
Panama: Carlos Escoffery, pt. Georgia Tech, Box 34348, Atlanta, Ga. 30332, USA.
Paraguay: Tony Jones, Casilla 1844, Asunción.
South Africa: Colin Miller, 32 Golf Club Terrace, Discovery, Transvaal – Richard Ginbey, 157 Faraday Blvd, Vanderbijlpark 1900.
Spain: Luis Segarra Moreno, M. Provensals 106, Calle Menorca, Barcelona 5.
Sri Lanka: G.V.A. Coonetilleke, 32/4A Malwatte Rd, Dehiwela – O.T. Goonawardena, 15 Susiri Pedesa, Aasiri Uyana, Katunbedda, Moratuwa.
Surinam: H.J. Janssen, Doekhieweg 5, Paramaribo.
Sweden: Arctic Radio Club, Box 5050, Växjö 5 – Tor Henrik Ekblom, Kärrgränd 185, S-162 46 Vällingby – Lars Rydén, Majvägen 6 S-175 40 Järfälla – Olle Alm, Axvägen 69, S-175 44 Järfälla – Henrik Klemetz, S-920 11 Tvärålund.
USA: Fred Heutte Jr., 1600 Newton Str. NE, Washington DC 20018 – Larry Magne, 15 N. Central Ave, Philadelphia,

(Continued on Page 210)



PACIFIC
AUSTRALIA
0
1000
2000 KM
G.M.T. +8
+9
G.M.T. +10
+11
G.M.T. +12
MIDNIGHT WHEN NOON AT GREENWICH
G.M.T. −10
G.M.T. −9
TRUST TERRITORY OF THE PACIFIC ISLANDS
+10
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
SOUTHERN OCEAN
INTERNATIONAL DATE LINE
+12
+13.00
−10.30
+11.30
+12.45
−11
Luzon
PHILIPPINES
Palawan
Mindanao
Borneo
Celebes
Seram
Irian Jaya
INDONESIA
Flores
TIMOR
AUSTRALIA
Western Australia
Northern Territory
South Australia
Queensland
New South Wales
Victoria
Tasmania
GUAM
YAP ISL.
HALL ISL.
PALAU ISL.
TRUK ISLANDS
SENYAVIN ISL.
MARSHALL ISL.
CAROLINE ISL.
ADMIRALTY ISL.
NEW GUINEA
PAPUA
SOLOMON ISL.
NAURU
GILBERT ISL.
GILBERT & ELLICE ISLANDS
ELLICE ISL.
PHOENIX ISL.
WESTERN SAMOA
SAMOA (U.S.A)
COOK
NIUE ISLAND
TONGA
FIJI
NEW HEBRIDES
LOYALTY ISL.
NEW CALEDONIA
NORFOLK ISL.
LORD HOWE ISLANDS
KERMADEC ISLANDS
NEW ZEALAND
CHATHAM ISL.
HAWAII (U.S. STATE)
PALMYRA
WASHINGTON
FANNING
CHRISTMAS
JARVIS
MALDEN
STARBUCK
VOSTOK
CAROLINE
FLINT
TUAMOTU
SOCIETY ISLANDS
TAHITI
ARCHIPELAGO
AWARUA
PITCAIRN
RAPA
WAKE
SAIPAN
BIKINI
MAJURO
ARNO
PONAPE
MOEN
YAP
KOROR
MANOKWARI
BIAK
FAK FAK
TERNATE
WEWAK
GOROKA
RABAUL
BOUGAINVILLE
MERAUKE
KEREMA
DARU
PORT MORESBY
SAMARAI
ST. CRUZ ISL.
DARWIN
KATHERINE
DERBY
BROOME
TENNANT CREEK
ATHERTON
CAIRNS
TOWNSVILLE
MT. ISA
MACKAY
ROCKHAMPTON
LONGREACH
ALICE SPRINGS
CARNARVON
GERALDTON
DALWALLINU
KALGOORLIE
PERTH
BUNBURY
BRIDGETOWN
ESPERANCE
ALBANY
LYNDHORST
WOOMERA
PORT AUGUSTA
CRYSTAL BROOK
ADELAIDE
MURRAY BRIDGE
MT. GAMBIER
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GRIFFITH
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SYDNEY
ORANGE
BROKEN HILL
KEMPSEY
GRAFTON
LISMORE
BRISBANE
TOOWOOMBA
MARYBOROUGH
ROMA
CHARLEVILLE
DARLING DOWNS
SCOTTSDALE
DEVONPORT
LAUNCESTON
QUEENSTOWN
HOBART
INVERCARGILL
DUNEDIN
TIMARU
CHRISTCHURCH
GREYMOUTH
WESTPORT
NELSON
NEW PLYMOUTH
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HAMILTON
GISBOURNE
NAPIER
PALMERSTON NO
WELLINGTON
CORAL SEA
TASMAN SEA
CELEBES SEA
ARAFURA SEA
BANDA SEA
GREAT AUSTRALIAN BAY
LAOAG
PORO
TINANG
QUEZON CITY
MANILA
LEGASPI
DAVAO CITY
DILI
HONOLULU

PACIFIC

AUSTRALIA (Commonwealth)

L.T: Vic, NSW, Queensland, Tasmania: GMT+10h (Vic, NSW, Tas: Oct-March GMT+11h); So. Australia: GMT+9½h (Oct-March GMT+10½h); We. Australia: GMT+8h; No. Territory: GMT+9½h – **Pr.L:** English – **E.C:** a/c 240/415V (yes).

The Australian Broadcasting Control Board is a Go. Authority responsible for the planning of the broadc. sce's ensuring that technical equipment and prgr. sce's are of adequate standards and determining power, frequency and periods of operating of st's.
ADDR: Marland House, 562-574 Bourke St, Melbourne 3000. **Cable:** Conboard. **Te:** 602-0151.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

Constituted under the Broadc. and TV-act 1942. The Australian National Broadc. Sce. prgr's are the responsibility of the ABC which is responsible to Parliament through the Minister for the Post and Telecommunications. The technical sce's in Radio and TV studios are provided by the ABC Engineering Division: the tr's are operated by the Australian Telecommunications Commission.
ADDR: Head Office: 145-153 Elizabeth St, Box 487, G.P.O., Sydney 2001. **Cable:** ABCOM. **Te:** 31.0211.
L.P: Chmn: Sir Henry Bland, CBE. Gen. Mgr: T.S. Duckmanton, CBE. Dep. Gen. Mgr: Dr. C.W. SSemmler, OBE. Asst. Gen. Mgr (TV): G.G. White. Asst. Gen. Mgr (Radio): K.C. Mackriell. Contr. of N: W.K. Fraser. Contr. of Engineering: K. Bourke (acting). Dir. Overseas Sce's: P. Koch. Head of Inf. Sce's: P.D. Lucas.

Mgr. Europe: S. Revill, 54 Portland Place, London W1N 4DY, England. Brussels Repr: M. Downing, B.P. 1, Int. Press Centre, Blvd. Charlemagne 1, B-1040 Brussels, Belgium. Mgr. No. America: A. Winter, Suite 1700, 1 Rockefeller Plaza, New York, 10020, USA; P. Barnett, 1147 20th Street, NW, Washington, D.C. 20036, USA. Mgr. Asia: J.A. Hollinshead, G2 Cathay Bldg, Mt. Sophia, Singapore 9, Peking Repr: W. Duncan, 122/8 Chichiayuan, Peking, PRC. Indonesian Repr: P. Munckton, Sabang Hotel, 11 Jalan H, Agus Salim, Jakarta. Indian Repr: G. Hughes, 112 Sundar-Nagar, New Delhi 110003. Japanese Repr: I. Macintosh, c/o NHK, Jinnan Shibuya-ku, Tokyo 150. Malaysian Repr: Journalist Wong Puan Wah, Room 705, Asia Insurance Bldg, Jalan Weld, Kuala Lumpur. Thailand Repr: G. Neat, 6 Soi Pra Pinit, Bangkok. Papua-New Guinea Repr: D.S. Hook, Douglas Str, Port Moresby.

THE NATIONAL BROADCASTING SERVICE

Studios in 35 centres.
Medium Wave Service: *=Metropolitan, †=Regional. St's in bold types are relayed on Shortwave.

Call	kHz	kW	Location	
Australian Capital Territory				
2CY*	850	10	Canberra	b)
2CN*	1440	2	Canberra	24h
New South Wales				
2CR†	550	50	Orange	a)
2ML†	560	0.4	Murwillumbah	a)
2FC*	610	50	Sydney	b)
2NU†	650	10	Tamworth	a)
2BY†	660	10	Byrock	a)
2CO†	670	10	Albury	a)
2KP†	680	10	Kempsey	a)
2NR†	700	50	Grafton	a)
2AN†	720	0.05	Armidale	a)
2BL*	740	50	Sydney	a)
2TR†	760	2	Taree	a)
2BA†	810	10	Bega	a)
2GL†	820	10	Glen Innes	a)
2NB†	1000	2	Broken Hill	c)
2UH†	1040	1	Muswellbrook	a)
2NC*	1230	10	Newcastle	24h
2NA*	1510	10	Newcastle	b)
2JJ*	1540	10	Sydney	24h
New South Wales				
2LG†	1570	0.2	Lithgow	a)
2CP†	1570	0.05	Cooma	a)
2WA†	1570	0.1	Wilcannia	a)
2WN†	1580	2	Wollongong	a)
Victoria				
3WV†	590	50	Horsham	a)
3AR*	**620**	**50**	**Melbourne**	**b)**
3MT†	720	2	Omeo	a)
3LO*	**770**	**50**	**Melbourne**	**a)**
3GI†	830	10	Sale	a)
3ZZ*	1220	2	Melbourne	h)
3WL†	1570	0.2	Warrnambool	a)
Queensland				
4QL†	540	10	Longreach	a)
4JK†	570	10	Julia Creek	a)
4QR*	580	50	Brisbane	a)
4MS†	600	1	Mossman	a)
4QN†	630	50	Townsville	a)
4QW†	710	10	St. George	a)
4AT†	720	4	Atherton	a)
4QS†	750	10	Toowoomba	a)
4QA†	760	2	Mackay	a)
4QG*	790	10	Brisbane	b)
4QY†	800	2	Cairns	a)
4RK†	840	10	Rockhampton	a)
4QB†	910	10	Maryborough	a)
4QO†	910	10	Eidsvold	a)
4WP†	1040	0.5	Weipa	a)
4MI†	1080	0.2	Mount Isa	a)
4QD+	1550	50	Emerald	a)
4GM†	1570	0.2	Gympie	a)
4HU	1570	0.05	Hughenden	a)
4SO†	1590	0.2	Southport	a)
South Australia				
5CK†	640	10	Port Pirie	c)
5SY†	690	2	Streaky Bay	c)
5CL*	730	50	Adelaide	d)
5AN*	890	50	Adelaide	c)
5PA†	1160	10	Naracoorte	c)
5LN†	1530	0.2	Port Lincoln	c)
5WM†	1580	0.05	Woomera R. Range	c)
5MG†	1580	0.2	Mt. Gambier	c)
5MV†	1590	2	Renmark	c)
5LC†	1570	0.05	Leigh Creek	c)
Western Australia				
6DL†	530	10	Dalwallinu	e)
6WA†	560	50	Wagin	e)
6NM†	600	0.2	Northam	e)
6PH†	600	2	Port Hedland	e)
6AL†	650	0.4	Albany	e)
6GF†	660	2	Kalgoorlie	e)
6BE†	670	0.05	Broome	e)
6BS†	680	4	Busselton	e)
6WF*	720	50	Perth	e)
6KW†	760	0.1	Kununrra	e)
6WN*	810	10	Perth	f)
6GN†	830	2	Geraldton	e)
6ED†	840	1	Esperance	e)
6CA†	850	0.2	Carnarvon	e)
6DB†	870	2	Derby	
6HW†	1020	0.1	Wyndham	e)
6XM†	1190	2	Exmouth	e)
Tasmania				
7ZL*	600	10	Hobart	b)
7QN†	630	0.4	Queenstown	a)
7NT†	710	10	Launceston	a)
7ZR*	940	10	Hobart	a)
Northern Territory				
8DR†	650	2	Darwin	c)
8KN†	650	0.05	Katherine	c)
8TC†	680	1	Tennant Creek	c)
8GO†	990	0.5	Gove	c)
8AL†	1530	0.2	Alice Springs	c)

For networks ABC 1/2/3 see MW-table.
a) 1900(Sun 1930)-1402; b) 2000(Sun 2030)-1500; c) 1930-1432; d) 2030-1430; e) 2100(Sun 2130)-1602; f) 2200(Sun 2230)-1700; g) 1900(Sun 1930)-1400; h) 0800-1300.
Note: During Daylight Saving Time st's in Victoria, NSW, Tasmania, So. Australia will sign on and close down one hour earlier as indicated.

FM RADIO SERVICE:
ADDR: ABC, G.P.O. Box 1419, Adelaide, So. Australia 5001.

92.1MHz	10kW	Adelaide 24h
* 92.9MHz	50kW	Sydney 24h
*101.9MHz	50kW	Canberra 24h
*105.7MHz	50kW	Melbourne 24h

*=(all relay from Adelaide).

DOMESTIC SHORTWAVE SERVICE
ADDR: Sydney: A.B.C, Box 487, G.P.O. 2001 – **Melbourne:** A.B.C, Box 1686, G.P.O. 3001 – **Brisbane:** A.B.C. Box 293, G.P.O. 4001 – **Perth:** A.B.C, Box 190D, G.P.O. 6001.
STATIONS: G.C: Sydney (150.54E/33.57S): VLI (2kW) – **Melbourne** (145.25E/37.20S): VLH and VLR (10kW) – **Brisbane** (153.01E/27.19S): VLQ and VLM (10kW) – **Perth** (115.49E/31.51S): VLW (10kW and 50kW).

Call	kHz	W. h. of tr.	Sun
VL16	6090	1900-1402	1930-1402
VLH11	11880	2000-2215	2030-2215
VLH15	15230	2230-0815	2230-0815
VLH9	9680	0830-1502	0830-1502
VLR6	6150	1900-2230	1900-2230
		0830-1402	0830-1402
VLR9	9680	2245-0830	2245-0830
VLQ9	9660	1900-1402	1930-1402
VLM4	4920	1900-1402	1930-1402
VLW6	6140	2100-0100	2100-0100
		0941-1602	0941-1602
VLW9	9610	2100-0955	2100-0955
		1000-1602	0956-1602
VLW15	15425	*2300-0941	*2300-0941

*) 50kW.
VLR relays 3LO, VLH relays 3AR; VLI takes N.S.W. regional prgr's; VLQ and VLM takes Queensland regional prgr's; VLW takes We. Australian regional prgr's;
N: 2000, 2030(not Sun), 2045(not Sun) 2145, 2245(Sun), 0230, 0330, 0600, 0800, 0900, 1100, 1200, 1300, 1355.
Wrp: Included in N, also 2242(Sun), 0240(Sat), 0245(Mon-Fri). 0345(Mon-Fri), 0858(Sun), 0855(Sat).

ANN. and INT-SIG: "This is the A.B.C."
NOTE: Although times are in GMT, calendar days apply to the Ea. States of Australia only.
PUB: "TV Times", "A.B.C. R. Guide", FM radios "24 Hours", R. Australia Prgr. Guide, Schools Broadcasts booklets, Boyer Lectures, and other publications as necessary – **FI:** By annual appropriation from Australian Gov's budget.

OVERSEAS SERVICE – RADIO AUSTRALIA
ADDR: Radio Australia, P.O. Box 428G, GPO Melbourne, 3001. **Te:** 600721. **Cable:** Newscast.
TRANSMITTERS: The trs of Brown Boveri, Gates, Collins, STC, AWA and RCA manufacture are located at Shepparton (145.25E/36.20S) – 4×100kW and 3×50kW; Lyndhurst (145.16E/38.03S) – 3×10kW; Carnarvon (113.43E/24.54S) – 1×250kW and 1×100kW; Brisbane (153.01E/27.19S)– 1×10kW, and are capable of operating on any freq. allocated for international broadcasting in the 11, 13, 16, 19, 25, 31, 41, and 49m.b. Darwin (130.38E/12.25S) inoperative since December '74 due to damage by a tropical cyclone.
N.B: Radio Australia, in common with all international broadcasters, has no assigned freqs but is allocated certain freqs for use during definite periods.

Frequencies used (Nov 76–March77)

kHz	kW	kHz	kW	kHz	kW
5995	10	9700	250	11965	100
6005	250	9760	100	15140	10
6035	250	11705	50	15160	10
6045	10	11725	50	15190	100
7220	10	11740	50	15240	10
7240	100/10	11760	100	15290	100
9515	10	11790	10	15320	50
9535	50	11810	100	15355	100
9540	100/50	11820	100	15410	250
9560	250/100	11825	100	17795	50
9570	100	11840	10	17860	100
9580	100/50	11845	100		
9600	100	11935	250/100		

SERVICES: I=So./So.Ea./So.We.As; II=Ea.As./ No.Pacific Isl; III=So.Pacific Isl; IV=Mid-Pacific Isl; V=Pacific Isles/Eu; VI=No.America(Ea); VII=No.America (We); VIII=Africa; IX=Papua New Guinea.

ANTENNAS: Shepparton, Lyndhurst, Brisbane and Carnarvon: Curtain arrays.

TRANSMISSIONS: November 76–March 77.
Frequencies: *)10kW; †)50kW; Freqs in bold 250kW; Others 100kW – Behind frequencies and between brackets: Antenna direction in degrees, clockwise from true North.

English	kHz/Beam	English	kHz/Beam
I		**IV**	
2100-2230	**6035**(347)	1800-1900	*5995(52)
	†9535(308)		†9540(63)
2230-0000	†9535(308)	1900-2000	*5995(52)
	11965(308)		†9540(63)
0000-0030	11965(308)		†11725(63)
0030-0130	11965(308)	2000-2100	†11725(63)
	17860(308)	2100-2330	†11725(63)
0130-0300	11965(308)		*15160(42)
	15410(347)	2330-0000	*15160(42)
	17860(308)	0100-0300	*15160(42)
0300-0800	**15410**(347)		†15320(73)
	17860(308)		†17795(73)
0800-1000	†11705(308)	0300-0500	*15160(42)
	15410(347)		†15320(73)
	15190(325)	0600-0700	*15160(42)
	17860(308)		†15320(73)
1000-1500	9540(308)	0700-0830	*5995(52)
	†11705(308)		*9515(63)
1500-1730	**6005**(347)	0830-1800	*5995(52)
	7240(325)	**V**	
	9540(308)	0700-0900	9570(128)
	†11705(308)		11740(128)
	11760(308)	**VI**	
II		1100-1300	†9580(68)
2000-2200	9600(355)	**VII**	
0130-0900	15355(342)	0100-0300	†15320(73)
1100-1300	9760(355)		†17795(68)
	†11740(355)	**VIII**	
1400-1730	9760(355)	0400-0500	11845(250)
III			15290(250)
1800-2000	*6045(108)	0600-0630	11845(250)
	9580(118)		15290(250)
	11810(118)	**IX**	
2000-2200	9580(118)	1800-2000	*7220(354)
	11810(118)	2000-2100	9600(355)
2300-0400	*15140(118)	2100-2200	9600(355)
	*15240(110)		*11790(355)
0400-0600	†11740(128)	2200-0130	*11790(355)
	*15140(118)	0130-0300	*11790(355)
	*15240(110)		15355(342)
0600-0700	†11740(128)	0300-0700	15355(342)
	*15240(110)	0700-0845	9760(355)
0700-0800	9570(128)		*11790(354)
	†11740(128)		15355(342)
0800-0900	*6045(108)	1000-1100	*11790(354)
	9570(128)	1100-1300	*7240(354)
	†11740(128)		9760(355)
0900-0930	*6045(108)	1300-1400	*7240(354)
	†11740(128)	1400-1730	*7240(354)
0930-1800	*6045(108)		9760(355)
French	**kHz/Beam**	**Indonesia**	**kHz/Beam**
I		2300-0100	11820(308)
2330-0000	**9700**(347)	1000-1500	11760(308)
	11935(320)		11935(347)
0100-0130	**11935**(347)	**Japanese**	
	15290(310)	1000-1100	9760(355)
IV			†11740(355)
0000-0100	*15160(42)	1300-1400	9760(355)
	†15320(73)		†11740(355)
0500-0600	*15160(42)	**Standard Chinese**	
	†15320(73)	1030-1200	**9560**(347)
VIII		1300-1430	11825(320)
0500-0600	11835(250)	**Cantonese**	
	15290(250)	1200-1300	**9560**(347)
Indonesian		1430-1530	11825(320)
2100-2300	7240(9)	**Pidgin**	
	9560(320)	0845-1000	9760(355)
2300-0100	9560(347)		*11790(354)

Thai	kHz/Beam	Vietnamese	kHz/Beam
2300-2330	**9700**(347)	2230-2300	**9700**(347)
	11935(320)		11935(320)
0030-0100	**11935**(347)	0000-0030	**11935**(347)
	15290(310)		15290(310)

Frequencies are subject to alteration at short notice. Details of alterations are given in the transmissions concerned for three days before the effective date and in "DX-ers Calling" and "Club Forum".

FIXED PROGRAMMES

ENGLISH: N: On the h. In addition a 3 min bulletin of Australian N. in brief and Sport at 30 mins past the h throughout the day – **International Current Affairs** (Mon-Fri): 0010, 0210, 0410, 0610, 0810, 1210, 1410, 1610, 1810, 2010, 2210 – **Australian Current Affairs** (Mon-Fri): 0110, 0310, 0510, 0710, 1110, 1310, 1510, 1710, 1910, 2110, 2310 – **Mailbag:** Sat 1940, Sun 0240, 0740, 1340 – **"Dxers Calling":** Sat 2040, Sun 0240, 0840, 1440 – **Business Report** (Mon-Fri): 0820, 1220, 1420, 1620, 1820, 2020, 2220 – **Club Forum:** Fri 2040, Sat 0240, 0840, 1440 – **Editorial Opinion** (Mon-Fri): 0120, 0320, 0520, 0720, 1120, 1320, 1520, 1720, 1920 – **Calling Antarctica:** Fri 0300, 0400, 0915 – **Countdown** (Mon-Fri): 0910. **Sports Magazine:** Sat 2340, Sun 0540, 1140, 1710. **Sport:** Descriptions and results of major sports events in Australia and Overseas: Sat 0200-0730 on 17860(I)/15240(II)kHz. Sports results of major interest are also included in World News on the h and in Australian News 30 mins past each h.

FRENCH: N: 2335, 0005, 0105 – **Current Affairs** (Mon-Sat): 2349, 0020, 0119 – **Mailbag** (alternate Sat): 2345, 0030, 0119.

INDONESIAN: N: 2115, 2215, 2315, 0015, 1030, 1130, 1230, 1330, 1430 – **Breakfast Session:** 2130, 2330 – **Current Affairs** (Mon-Fri): 1245 – **English Lessons for Indonesians:** Mon-Sat 2230, 0030, Mon and Tues also 1200.

JAPANESE: N: 1030, 1130 – **Current Affairs** (Mon-Fri): 1040, 1342 – **DX Session:** Sun 1042, Wed 1347.

STANDARD CHINESE: N: 1045, 1345.
CANTONESE: N: 1245, 1445.

PIDGIN: N: 0930 – **Current Affairs** (Mon-Fri): 0942 – **Market Prices and Weather** (D. exc Sat): 0945.

VIETNAMESE: N: 2235, 0005.

THAI: N: 2305, 0035 – **Current Affairs** (Tues-Sat): 2315, 0045 – **English Lessons for Thai:** Sun 2315, 0045.

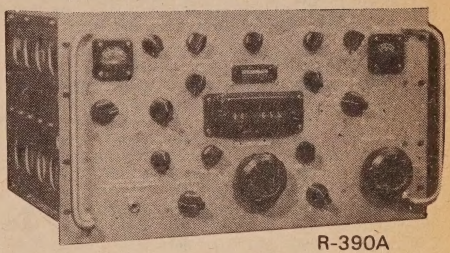
NATIONAL MUSIC: Music by Australian artists and composers is broadcast regularly in all transmissions.

ANNOUNCEMENTS: "This is Radio Australia transmitting the Overseas Service from the Melbourne Studios of the Australian Broadcasting Commission. You are tuned to Radio Australia, the Overseas Service of the ABC." Frequencies and wavebands are given at regular intervals.
TUNING AND INTERVAL-SIGNAL: Celeste playing "Waltzing Matilda" for five minutes preceding programmes to all areas. Transmissions begin with the laugh of the Australian bird, the Kookaburra.
VERIFICATION: Listeners Reports are welcomed and correct reports are confirmed by verification card.
PUBLICATIONS: A programme booklet and transmission schedule are available free upon application. Write to: Radio Australia, Box 428G, G.P.O., Melbourne, 3001, Australia.

PRIVATELY-OWNED BROADCASTING STATIONS

associated in a body called:
Federation of Australian Radio Broadcasters
Addr: P.O. Box 294, Milsons Point, NSW 2061. **Te:** 02-9294866.
Telex: 25161. **Cable:** AFOBS, Sydney – Federal Dir: D.L. Foster, Federal Secr: J.H. Finlayson.
Regional Offices: Bryson Centre, 186 Exhibition Str, Melbourne 3000; Level 28, Brisbane Plaza, 68 Queen Street, Brisbane 4000; 177 Currie Street, Adelaide 5000; P.O. Box 2296, Perth 6001.

WORLD'S BEST RECEIVER



R-390A

R-390A/URR

COMMUNICATIONS RECEIVERS

The R-390A/URR is a high performance, exceptionally stable general purpose triple conversion communications receiver. This set designed by Collins Radio for the U.S. Army is widely used wherever extreme accuracy is desired. It incorporates 4 mechanical filters to provide very sharp selectivity. The frequency dial has a digital presentation. The receiver incorporates plug in modules to facilitate repairs. This set uses a permeability tuned oscillator to achieve the frequency stability. The B.F.O. also uses a P.T.O. SPECIFICATIONS: Frequency range: 500 kc to 32,000 kc —IF selectivity: 100 cps to 16 kc. Type of Reception: CW, AM, Tone, FSK. Output Impedance: 600 ohms. Power Input: 110/220 VAC 50/60 cps 1 Ph.
Priced at $949.50

DAMES COMMUNICATION SYSTEMS

10 Schuyler Avenue
North Arlington, New Jersey 07032
(201) 998-4256

2CH is controlled by the Council of Churches in New South Wales, **2SM** by the Roman Catholic Church, **5KA** and **5AU** by the Methodist Church.

Abbreviations: G.M.=Station Manager; C.E.=Chief Engineer; N-1=News on the h; N-2=News on the half h; N-3=News on the h and half h; Amalg=Amalgamated; Broadc=Broadcasting; B.Casters=Broadcasters; Transc=Transcontinental.

The numeral preceding the call letters indicates the state: 2=New South Wales; 3=Victoria; 4=Queensland; 5=South Australia; 6=Western Australia; 7=Tasmania; 8=Northern Territory.

Powers: Several st's will increase power to 5kW. Directional antennas may be used in these cases, and freq's may be changed.

*) Broadcasting 24h a day.

	Call	kHz	kW		Call	kHz	kW
1)	2KM	530	5(d)	53)	2UW	1110	5*
2)	3UL	530	2(d)	54)	4BC	1120	5(d)*
3)	4KZ	530	5(d)	55)	2AD	1130	2(d)
4)	7SD	540	2(d)	56)	3CS	1130	2(d)
5)	4AM	560	5(d)	107)	6CI	1130	2
6)	7BU	560	2/1	57)	2HD	1140	2*
7)	2BH	570	0.5	58)	2WG	1150	2
81)	4GY	600	2	59)	4MB	1160	2
8)	4KQ	690	5*	60)	2CH	1170	5*
9)	2KA	780	2	61)	3KZ	1180	5*
10)	4TO	780	2/1	62)	2NZ	1190	2
11)	6VA	780	2	63)	4GG	1200	2(d)*
12)	5RM	800	2	64)	5KA	1200	2*
76)	4NA	830	5(d)	64a)	2CC	1210	5(d)*
13)	7QT	840	0.5	65)	2GF	1210	2(d)
14)	4GR	860	2	27)	6KY	1240	2*
15a)	6AM	860	2	66)	4AK	1240	2
16)	7HO	860	2*	67)	3TR	1240	2(d)
17)	2GB	870	5*	68)	8DN	1240	2
18)	3YB	880	2(d)	69)	2DU	1250	2
87)	4BH	880	5(d)	70)	3SR	1260	2
20)	6PR	880	2*	71)	2SM	1270	5*
21)	2LM	900	2	72)	3AW	1280	5*
22)	6BY	900	2	73)	2TM	1290	2
23)	7AD	900	2	108)	4BK	1300	5(d)*
24)	8HA	900	2	44)	5SE	1300	2(d)
25)	2XL	920	2/1	74)	2GO	1310	5(d)
26)	4VL	920	2/1	44)	5AD	1310	2*
27)	6NA	920	2	75)	3BA	1320	2*
28)	3UZ	930	5*	77)	3SH	1330	2
29)	4CD	930	2(d)	78)	4BU	1330	2
30)	4AY	940	2(d)	79)	2LF	1340	2
31)	2UE	950	5*	80)	3GL	1350	2
32)	3BO	960	2	82)	2NX	1360	2*
19)	4WK	960	2	83)	2LT	1370	0.5
107)	6TZ	960	2	83a)	3MP	1370	5(d)*
33)	2MW	970	2(d)	84)	4LM	1370	2
34)	5DN	970	2*	85)	2GN	1380	2
35)	3HA	980	2	86)	4MK	1390	2(d)
36)	4RO	980	2	87)	4BH	1380	2
105)	6KG	980	2	87a)	5AA	1390	2(d)*
37)	2GZ	990	2	88)	2PK	1400	2
38)	2ST	1000	2(d)	89)	2KO	1410	2*
15b)	6PM	1000	2*	90)	3XY	1420	5*
39)	4CA	1010	2*	91)	2WL	1430	2*
40)	4IP	1010	5(d)*	92)	2MG	1450	2(d)
15c)	6GE	1010	2	93)	5AU	1450	5(d)
41)	7EX	1010	2	94)	2NM	1460	2
42)	2KY	1020	5*	44b)	5MU	1460	2
43)	3DB	1030	5*	95)	3MA	1470	2
86)	4MK	1030	5(d)	96)	2BE	1480	2/1
44a)	5PI	1040	2	97)	4ZR	1480	2
45)	2CA	1050	5(d)*	98)	2AY	1490	2
46)	3CV	1060	2(d)	99)	2BS	1500	2(d)
47)	4SB	1060	2	100)	3AK	1500	5(d)*
48)	2RG	1070	2/1	101)	2QN	1520	2
22)	6WB	1070	2	102)	2VM	1530	2
49)	2MO	1080	2	103)	2RE	1560	2
22)	6IX	1080	2*	104)	3NE	1600	2/1
50)	7HT	1080	2*				
43a)	3LK	1090	2				
51)	4LG	1100	2				
22)	6MD	1100	2				
52)	7LA	1100	2				

Addresses and other information:

Note: Although times are in GMT, calendar days refer to local time.

News: Additional newscasts usually are aired at local lunch and drive hours Mon-Fri.

Verifications: Details of verification policy often vary, and thus are omitted here. Several st's are reluctant to verify rep's, especially for shorter distances.

1) R. Kempsey Ltd, P.O. Box 120, Kempsey 2440 – G.M: J.J. Condron. S.M: K.G. Johnson. C.E: E. Varga 1900(Sat, Sun 2000) – 1300. **N**-1.

2) Associated Broadc. Sce's Ltd, P.O. Box 253, Warragul 3820 – G.M: R.W. Ellenby. S.M: N.A. Pellitt. C.E: D. Sanders. W 1930-1300, Sun 2000-1230. **N**-1.

3) Coastal B.Casters Pty. Ltd, P.O. Box 19, Innisfail 4860 – Man. Dir: G.T. Shmid. S.M: H.A. Clegg. C.E: D. Woolnough. W 1930-1300(Sat 1400), Sun 2030-1230. **Italian:** Sun 1000-1130. **N**-1.

4) North East Tasmania Radio B.Casters, P.O. Box 109, Scottsdale – S.M: B. Scetrine. W 2045-1300, Sun 2200-1230.

5) Far Northern Radio (Tablelands) Pty. Ltd, P.O. Box 177, Mareeba 4880 – S.M: B.J. Healy. C.E: P.L. Bunney. W 1900-1400 (Sat 1600), Sun 2030-1300. **N**-1.

6) Burnie Broadc. Sce's Pty. Ltd, P.O. Box 120, Burnie 7320 – S.M: A. Demeyer. C.E: D. Wilson. W 2000(Sun 2200)-1230. **N**3.

7) R. Broken Hills Pty. Ltd, P.O. Box 699, Broken Hill 2880 – S.M: G.B. Trappel. W 2000-1300, Sun 2200-1200.

8) Labor Broadc. St. Pty. Ltd, P.O. Box 84, Newstead 4006 – S.M: R. Swift. C.E: A.L. Price. **Italian:** Tues 0945-1130. **N**-1.

9) Transc. Broadc. Corp, P.O. Box 145, Penrith – G.M: J.J. Condron, C.E: M. Toakley. W 1900-1230, Sat/Sun 2000-1400.

10) Amalg. Wireless (Asia) Ltd, P.O. Box 986, Townsville 4810 – S.M: L. Hillway, C.E: G. Richardson. **N**-3.

11) Albany B.Casters Pty. Ltd, P.O. Box 298, Albany 6330 – Man. Dir: E. Furlong. C.E: M. Hoffman. 2100-1500(Sat 1600), Sun 2200-1400. **N:** W 2345,0430,1100.

12) River Murray B.Casters Pty. Ltd, P.O. Box 321, Berri 5543 – G.M: N.W. Bradley. S.M: D.J. Marshall. C.E: H.F. Lloyd. 2000(Sun 2215)-1330(Sat 1430). **Greek:** Mon 1230-1430. **N**-1.

13) West Coast B.Casters Pty Ltd, P.O. Box 315, Queenstown 7467 – S.M: N.J. Tanner. 2030(Sun 0700)-1200.

14) Gold Radio Sce's, P.O. Box 111, Toowoomba 4350 – S.M: R. Scott. C.E: R. Hildred. 1900-1400.

15A) Consolidated Broadc. Syst.(W.A.) Pty. Ltd, P.O. Box 256, Northam, W.A – G.M: G.B. Edwin. S.M: F.W. Bennison. C.E: D. Littlejohn. W 2145-1500(Sat 1600), Sun 2300-1430. **N**-2.

15B) Consolidated Broadc. Syst.(W.A.) Pty. Ltd, 283 Rokeby Rd, Subiaco 6008 – G.M. & C.E: As 15A). **N**-1. **F.PI:** 5kW(d).

15C) Great Northern B.Casters Ltd, P.O. Box 141, Geraldton 6530 – S.M: L.J. Harris. G.M. & C.E; As 15A). W 2200-1500, Sun 2300-1400. **N**-2.

16) Comm. B.Casters Pty. Ltd, G.P.O. Box 542F, Hobart 7001 – S.M: A.B. Brown. Prgr.Mgr: B.D. Carr, C.E: R.M. McCarthy. **N**-1. 2030,2130,2230,0230,0330. **F.PI:** 5kW.

17) Broadc. Station 2GB Pty. Ltd, G.P.O. Box 4290, Sydney 2001 – Chief Exec: R.E. Fowell. S.M: P. Thompson. C.E: R.J. Milne. **N**-2.

18) Ass. Broadc. Sce's. Ltd, P.O. Box 485, Warrnambool 3280 – S.M: J. Walker. C.E: J. Weilandt. W 1930-1300, Sun 2030-1230. **N**-1.

19) South Qld. Broadc. Corp. Pty. Ltd, P.O. Box 195, Warwick 4370 – S.M: N. Jones. C.E: R. Van Poecke. 2000(Sun 2100)-1230.

20) Nicholsons Broadc. Sce's Pty. Ltd, P.O. Box 6072, Perth 6001 – Exec. Dir: E. Fisher. C.E: T. Eastwood. **N**-1. F.P1: 5kW.

21) Richmond River B.Casters Pty. Ltd, P.O. Box 44, Lismore 2480 – S.M. & C.E: H. Green. 1930 (Sun 2000)-1400(Sat 1500).

22) 6IX R. Network Pty. Ltd, P.O. Box 77, Tuart Hill 6060 – G.M: G.V. Byrne. 6IX (Perth) Main st: 24h, 6WB (Katanning), 6MD (Merredin), 6BY (Bridgetown) 2200-1500. N-1. **V**. Reports not wanted.

23) No. Tasmania B.Casters Pty. Ltd, P.O. Box 262, Devonport 7310 – S.M: M. Evans. C.E: B. Yere. W 2000-1300, Sun 2200-1230.

24) Alice Springs Comm. B.Casters Pty. Ltd, P.O. Box 28, Alice Springs 5750 – G.M: R.H. O'Sullivan. C.E: J.M. Farmer. 1830-1530(Sat 1630, Sun 1430). **N**-1.
25) Cooma B.Casters Pty. Ltd, P.O. Box 651, Cooma 2630 – S.M: Mrs. J. Briscoe 1930-1330(Sat 1400).
26) Charleville Broadc. Co. Ltd, P.O. Box 84, Charleville 4470 – S.M: J. Foley. C.E: F. Davidson. W 1955-1230, Sun 2130-1500.
27) 6KY R. Corp. P.O. Box 99, Tuart Hill 6060 – G.M: W. Bowen. C.E: K.J. Cantello. 6KY (Perth, main st.) 24h, 6NA (Narrogin) 2200-1500. **N**-1.
28) Nilsen's Broadc. Sce's Pty. Ltd, 45 Bourke Str, Melbourne 3000 – G.M: L. Bennett. S.M: R.J. Cornish, C.E: W. Virgona. **N**-1.

29) Gladstone District Broadc. Pty. Ltd, P.O. Box 420, Gladstone 4680 – G.M: M.F. Bellet. C.E: D. Walmsley. W 1900-1300(Sat 1400), Sun 2000-1200. **N**-1.
30) Ayr B.Casters Pty. Ltd, P.O. Box 1080, Townsville 4810 – S.M: G. Schmid. C.E: F. Lewis. W 1900(Sun 2000)-1400.
31) R. 2UE Sydney Pty. Ltd, P.O. Box 950, North Sydney 2060 – G.M: S.J. Willmott. S.M: B.D. McClenaughan. C.E: A.K. Greenhalgh. **N**-1.
32) Amalg. Wireless (A'sia) Ltd, P.O. Box 447, Bendigo 3550 – S.M: T. Tayler. C.E: W. Moore. 1900(Sun 2000)-1400. **N**-1.
33) Tweed R. & Broadc. Co. Pty. Ltd, P.O. Box 53, Murwillumbah 2484 – S.M: A.E. Wyatt. C.E: N. Carpenter. W 1930-1300(Sat 1400), Sun 2000-1400.
34) Hume B.Casters Pty. Ltd, 201-205 Tynte Str, North Adelaide 5006 – S.M: C.P. Linkson. C.E: L.N. Sjoberg. **N**-3.

35) Washington B.Casters (3HA) Pty. Ltd, P.O. Box 414, Hamilton 3300 – G.M: B. Washington. C.E: S. Green. W 1900(Sat 2000, Sun 2100)-1400.
36) Rockhampton Broadc. Co, Pty. Ltd, P.O. Box 159, Rockhampton 4700 – S.M: C.A. Woodland. C.E: N.J. Bishop. W 1930-1400, Sun 2000-1230. **N**-1.
37) Country Broadc. Sce's Pty. Ltd, P.O. Box 465, Orange 2800 – G.M: E. Yelf. S.M: P. Webster. C.E: J. Vanderstock. W 1930(Sun 2000)-1400(Sat 1500).
38) South Coast & Tablelands Broadc. Pty. Ltd, P.O. Box 540, Nowra 2540 – S.M: P. Horton. C.E: R. Waller. 1930-1400. **N**-1. **F.Pl:** 5kW(d).
39) Amalg. Wireless(A'sia) Ltd, P.O. Box 1121, Cairns 4870 – S.M: R. Furlong.
40) R. Broadc. Network of Qld, P.O. Box 1150, Brisbane 4001 – Exec. Dir: A. Brandt. S.M: K. Mulcahy. C.E: V. Richard-Smith. **N**-1.
41) 7EX Pty. Ltd, P.O. Box 812, Launceston 7250 – S.M: A. McClelland. C.E: R. Abraham. Continuous Wed 1900-Sun 1400; Other days 1900-1500.
42) Broadc. St. 2KY, P.O. Box 542, Potts Point 2011 – S.M: R. Hood. C.E: L.A. Spinner.

43) Broadc. St. 3DB, G.P.O. Box 2134T, Melbourne 4001 – G.M: F. Flowers. C.E: N. Serpell. **N**-1.
43a) Sunraysia B.Casters Pty. Ltd, P.O. Box 606, Horsham 3400 – G.M: R.W. Harwood. S.M. & C.E: G.R. Chisholm. 1930(Sun 2100)-1305(Sat 1330). **N**-2.
44a) Advertiser Broadc. Network, 121 King William St, Adelaide 5000 – G.M: L.J. Sutton. C.E: J.L. Schaumloffel. 5AD(Adelaide, main st.) 24h, 5PI(Crystal Brook) W 1930-1305(Sat 1400), 5SE(Mt. Gambier)1930-1400(Sat 1500, Sun 1305). **N**-1.
44b) M.B. Broadc. Co. Ltd, Box 244, Murray Bridge, 5253 – S.M: M. Hambridge. C.E: K. Mayo. 1930-1300(Sat 1400).
45) Canberra B.Casters Pty. Ltd, Box 163, Canberra City 2601 – S.M: P. Carrodus. C.E: H. Beazley.
46) Broadc. St. 3CV, P.O. Box 79, Maryborough 3465 – S.M: D. Talbot. C.E: W. Harper. 1900(Sat 2000, Sun 2100)-1400.
47) So. Burnett Broadc. Co. Pty. Ltd, P.O. Box 305, Kingaroy 4610 – S.M. & C.E: C. Fechner. 2000-1230.
48) 2RG B.Casters Pty. Ltd, P.O. Box 1005, Griffith 2680 – Man.Dir: W.R. Gamble. S.M: N. Murphy. C.E: Ove Andersen. 2000(Sun 2100)-1800.
49) 2MO Gunnedah Pty. Ltd, P.O. Box 62, Gunnedah 2380 – S.M: G. Arklay. 1930(Sun 2000)-1300.
50) Metropolitan B.Casters Pty. Ltd, G.P.O. Box 572F, Hobart 7001 – S.M: K. Buntain. C.E: F. Klein.
51) Central Queensland Broadc. Corp, P.O. Box 20, Longreach 4730 – S.M: C. Lowney. C.E: G. Nixon. W 2000-1200(Sat 1400), Sun 2200-1230.
52) Amalg. Wireless(A'sia) Ltd, P.O. Box 635G, Launceston 7250 – S.M: B. McNeilly. C.E: R. McLean. 1930-1359. **N**-1.
53) Commonwealth Broadc. Corp. Pty. Ltd, 365 Kent Str, Sydney 2000 – G.M: K.R. Archer. S.M: F.R. Jeffcoat. C.E: W.S. Arnold. **N**-3.
54) Commonwealth Broadc. (Qld.) Pty. Ltd, G.P.O. Box 95, Brisbane 4001 – G.M: K.A. Archer. S.M: I.W. Renton. C.E: N.J. Bishop. **N**-1.

55) New England B.Casters Pty. Ltd, P.O. Box 270, Armidale 2350 – S.M: E.C. Wilkinson. C.E: A. Kollosche. 1930-1330. **N**-1.
56) Associated Broadc. Sce's Ltd, P.O. Box 63, Colac 3250 – S.M: V.L. Haycroft. C.E: M. Black. 2000-1300(Sun 1230). **N**-3.
57) Airsales Broadc. Co. Pty. Ltd, P.O. Box 19, Mayfield 2304 – G.M: E. Webster. C.E: P. O'Sullivan. **N**-1.
58) Riverina B.Casters Pty. Ltd, P.O. Box 480, Wagga Wagga 2650 – S.M: C. Couldrey. C.E: P. Combs. W 1930-1400, Sun 2100-1300.
59) Maryborough Broadc. Co. Pty. Ltd, P.O. Box 143, Maryborough 4650 – S.M: J. McCormack. C.E: G.N. Nielsen. W 1930-1300, Sun 2000-1200. **N**-1.
60) Amalg. Wireless(A'sia) Ltd, P.O. Box 4161, Sydney 2001 – G.M: D. Craig. S.M: B. Rogerson. C.E: W. Lowder. **N**-1.
61) 3KZ Broadc. Co. Pty. Ltd, 186 Exhibition Str, Melbourne 3000 – G.M: L.J. Hyle. S.M: J. Hilcke. C.E: B. Perry. **N**-3.
62) Northern B.Casters Pty. Ltd, P.O. Box 3, Inverell 2360 – G.M: E.R. Yelf. S.M: S.A. Ward. C.E: J.M. Richardson. 2000-1230(Sun 1215). **N**-1.
63) Gold Coast R. Broadc. Co. Pty. Ltd, P.O. Box 241, Southport 4215 – S.M: B. Ferber. C.E: J. Retrot. 1900-1600.
64) 5KA B.Casters Pty. Ltd, G.P.O. Box 1550, Adelaide 5001 – S.M: I.R.E. Lane. C.E: D. De Caen. **N**-3.
64a) Capital City B.Casters Pty. Ltd, P.O. Box 1499, Canberra City 2601 – G.M: N.A. Ebby. Prgr.Dir: Bob Mckay. C.E: F.B. Klein. **N**-3.
65) Grafton Broadc. Co. Pty. Ltd, P.O. Box 276, Grafton 2460 – S.M: C. Joscelyne. C.E: W. Rowe. 1930(Sun 2000)-1400.
66) Broadc. Station 4AK, P.O. Box 783, Toowoomba 4350 – S.M: J. Sweeney. **N**-1.
67) Latrobe Valley & Gippsland Broadc. Pty. Ltd, P.O. Box 160, Sale 3850 – S.M: D. Smith. W 1900-1300, Sat 2000-1400, Sun 2100-1300.
68) Darwin B.Casters Pty. Ltd, P.O. Box 506, Darwin 5794 – S.M: D. Charlton, S.M: J.T. McNally. C.E: A. Blackman. W 1900-1430, Sun 2030-1330. **Greek:** Mon 0930-1000. **N**2045, 2145,2230,0030,0300,0345,0830,0900.
69) Western B.Casters Pty. Ltd, P.O. Box 44, Dubbo 2830 – S.M: R. Ferguson. C.E: M. Weiland. W 1930-1400(Sat 1500), Sun 2000-1300.
70) Associated Broadc. Sce's Ltd, P.O. Box 205, Shepparton 3630 – S.M: F.K. Smith. C.E: R.J. Abell. W 1845-1345(Sat 1515), Sun 1945-1245.
71) Broadc. St. 2SM Pty. Ltd, G.P.O. Box 4092, Sydney 2001 – G.M: G. Rutherford. C.E: M. Wilson. **Italian:** Sun 1115-1145. **Maltese:** Sun 1100-1115. **N**-3 (1900-1300).
72) 3AW Broadc. Co. Pty. Ltd, 382 Latrobe Str, Melbourne 3000 – G.M: R.E. Fowell. S.M: R. Gray. C.E: R. Kinley. **N**-1. **V.** Rep's not wanted.
73) Tamworth R. Development Co. Pty. Ltd, P.O. Box 497 Tamworth 2340 – S.M: G.M. Ellis. C.E: O. Bottle. 1900-1500.
74) Central Coast Broadc. Pty. Ltd, P.O. Box 564, Gosford 2250 – G.M: J. Tonkin. Prgr.Mgr: B. Byrne. C.E: K. Bayley. 1900-1500. **N**-1.
75) Ballarat B.Casters Pty. Ltd, P.O. Box 360, Ballarat 3350 – M.D: E.J. Whykes. C.E: R. Turnbull. **N**-3.
76) Sunshine Coast B.Casters Ltd, P.O. Box 279, Nambour 4560 – G.M: P. Maher. C.E: W. Ryan. 1900-1400.
77) Cameron B.Casting Sce's Pty. Ltd, P.O. Box 504, Swan Hill 3585 – M.D: C. Cameron. C.E: B. Walsh. 1900(Sat 2000, Sun 2100)-1400. **N**-2.
78) Bundaberg B.Casters Pty. Ltd, P.O. Box 1059, Bundaberg 4670 – S.M: G.L. McKennariey. C.E: J. Hickey. W 1930-1230, Sun 2145-1200. **N**-1. **F.Pl:** 5kW(d).
79) Young B.Casters Pty. Ltd, P.O. Box 31, Young 2594 – G.M: J. Condron. S.M: R. Page. C.E: B. Denniss. W 1930-1400. **N**-1.

80) Geelong B.Casters Pty. Ltd, P.O. Box 176, Geelong 3220 – G.M: J.A. Morwood. S.M: R. Gray. C.E: J. Mathews. 1930(Sun 2100)-1330(Sat 1400). **N**-1.
81) Gympie-Noosa B.Casters Pty. Ltd, P.O. Box 42, Gympie 4370 – S.M: R. Blue. S.M: K. Mulcahy. W 1930-1230, Sun 2030-1215.
82) Hunter B.Casters Pty. Ltd, 770 Hunter St, Newcastle West 2302 – Act.S.M: J. McGahen. C.E: R. Langhans. **N**-1.
83) Lithgow B.Casters Pty. Ltd, P.O. Box 21, Lithgow 2790 – S.M: G. Frame. C.E: N. King. W 1900-1400, Sun 2000-1300.
83a) Box 174, Frankston, 3199 – S.M: R. Bean.
84) North Queensland Broadc. Corp. Pty. Ltd, P.O. Box 780, Mt. Isa 4825 – S.M: H. Roberts. 1900-1400. **N**-1.
85) Goulburn Broadc. Co, P.O. Box 115, Goulburn 2580 – S.M: C. Brammall. C.E: G. Sangster. 2000(Sun 2100)-1300.

86) Barrier Reef Broadc. Pty. Ltd, P.O. Box 183, Mackay 4740 – S.M: N.B. Jackson. C.E: D. Dawson. 1900(Sun 2000)-1400. **N**-1.
87) B.Casters (Aust.) Pty. Ltd, P.O. Box 906M, Brisbane 4001 – G.M: W. Stagg. C.E: P. Smerdon. **N**-1.
87a) Festival City B'casters Ltd, Box 1390, Norwood 5067 – G.M: A.R. Palmer. C.E: J. Ferguson. **N**-1.
88) Parkes Broadc. Co. Pty. Ltd, P.O. Box 295, Parkes 2870 – S.M: N.T. Spicer. 2000-1305(Sun 1215). **N**-1 0000-close, **N**-2 2000-2300.
89) R. 2KO Newcastle Pty. Ltd, P.O. Box 300, Newcastle 2300 – G.M: C.J. Derwin. C.E: H. Whyte. **N**-3.1900-2200.
90) Efftee B.Casters Pty. Ltd, 250 Spencer Str, Melbourne 3000 – G.M: R.J. Baeck. C.E: W Chamberlain. **N**-1 Mon-Fri 1900-0800; Sat/Sun 2000-0200.

91) Wollongong B.Casters Pty. Ltd, P.O. Box 1234, Wollongong 2500 – S.M: W.J. Gibson. C.E: M. Frew. **N**-1. **F.Pl:** 5kW.
92) Mudgee Broadc. Pty. Ltd, P.O. Box 17, Mudgee 2850 – M.D: R.B. Camplin. C.E: J. Sullivan. 1900(Sun 2000)-1400.
93) 5AU B.Casters Pty. Ltd, P.O. Box 471, Whyalla 5600 – G.M: N.W. Bradley. S.M: D. Bean. C.E: A. Hewitt. 1945(Sat, Sun 1930)-1430. **F.Pl:** Move to 1240kHz.
94) Hunter B. Casters Pty. Ltd, P.O. Box 96, Muswellbrook 2333 – S.M: J. McGahen. 1900(Sun 2000)-1400.
95) Sunraysia B.Casters Pty. Ltd, P.O. Box 539, Mildura 3500 – S.M: R. Harwood. W 2000-1230, Sun 2200-1300.

96) R. 2BE Pty. Ltd, P.O. Box 471, Bega 2550 – M.D: R.E. Rumble. S.M: A. Wheatley. C.E: P. Carson. 1925(Sun 2100)-1300(Sat 1400). **N**-1. **F.Pl:** 5kW(d) on new freq.
97) Maranoa Broadc. Co. Ltd, P.O. Box 22, Roma 4455 – S.M: A. Mirsberger. 2000(Sun 2200)-1200. **N**-1.
98) Amalg. Wireless(A'sia) Ltd, P.O. Box 670, Albury 2640 – S.M: E.J. Pattison. C.E: T.R. Clark. 1930-1400(Sun 1300). **N**-1.
99) Bathurst B.Casters Pty. Ltd, P.O. Box 310, Bathurst 2795 – M.D: R.B. Camplin. C.E: R. Upfold. W 1900(Sun 2000)-1400. **N**-1. **N**-3 1900-2300.
100) 3AK Melbourne B.Casters, P.O. Box 150, Richmond 3121 – S.M: V.P. Stone. C.E: J. Young. **N**-1.

101) Haig-Muir Broadc. Pty. Ltd, 368 George St. Deniliquin 2710 – G.M: J.B. Wiltshire. S.M: D. Rees. C.E: P.W. Walton. 2000(Sun 2100)-1300(Sat 1400). **N**-1.
102) Moree Broadc. & Development Co. Ltd, P.O. Box 389, Moree 2400 – S.M: S.T. O'Shea. C.E: R. Hazell. 1900-1304(Sat 1400). **N**-3.
103) Manning Valley B.Casters Pty. Ltd, P.O. Box 275, Taree 2430 – S.M: H. McCrindle. 1930-1300.
104) Wangaratta Broadc. Co. Pty. Ltd, P.O. Box 167, Wangaratta 3677 – S.M: K.T. Gleeson, C.E: I. Crockett. W 1900-1400, Sat 2000-1500, Sun 2100-1300. **N**-1.
105) Consolidated Broadc. Syst.(WA) Pty. Ltd, P.O. Box 440, Kalgoorlie 6430 – S.M: D. Wyatt. W 2200-1500(Sat 1600), Sun 0000-1400.

106) Great Northern B.Caters Ltd, P.O. Box 141, Geraldton 6530 – S.M: L. Harris. W 2200-1430(Sat 1530), Sun 0000-1400.
107) Nicholsons Broadc. Sce. Pty. Ltd, P.O. Box 148, Bunbury 6230 – S.M: R. Elliott. 6TZ(Bunbury), 6CI(Collie). 2100-1600(Sat 1800).
108) Brisbane Broadc. Pty, G.P.O. Box 531, Brisbane 4001 – G.M: R.J. Walker. Prgr. Mgr: B. Ryan, C.E: G. Lloyd. **N**-1.

PUBLIC BROADCASTING (Community Radio & University Stations)

At present, many experimental licences are being granted for a variety of st's to be operated by public-broadcasting groups. Most st's are based in universities or colleges of advanced education, and are intended to serve distinct parts of communities as well as offering educational prgr's. Under "Programming" below, abbreviations used are M (fine music), E (educational), C (community-access radio). Most of the new licences have been issued only for short periods, but will probably be renewed on expiry.
The **Public Broadcasting Association of Australia,** P.O. Box 578, North Sydney, NSW 2060, is a semi-formal organization with the purpose of co-ordinating and spreading information about existing and proposed st's of this type.

	Call	kHz	kW	Prgr.
1)	5UV	530	0.5	EC
2)	3CR	840	0.44	C
3)	6NR	930	0.5/0.3	EC
4)	2XX	1010		
5)	—	1630	*	*
6)	VL2UV	1750	0.3	E
7)	VL3RT	5250	0.3	E
	FM	**MHz**		
8)	2MBS	92.1	0.4	M
9)	6UWA	92.1	5	E
10)	7CAE	92.1	1	E
5)	2ARM	92.3	0.1	*
11)	2MCE	92.3	1.6/0.17	EC
12)	2NCR	92.5	1	EC
13)	3MBS	93.7	0.4	M
14)	3GCR	103.5	1	CM
15)	4ZZZ	105.7	*	*

*) = Station limited in power to confine reception to University campus. Prgr. mainly for entertainment of students.
1) Dept. of Adult Education, University of Adelaide, Adelaide SA 5001 – Prod.Man: K. Conlon. Mon-Fri 0500-1100 (approx.).
2) Community R. Federation, 1112 (rear) High Str, Armadale, Vic. 3143. 2030-2300, 0200-0300, 0630-1100.
3) West Australian Institute of Technology, Hayman Rd, South Bentley, WA 6102.
4) Australia National University, Canberra.
5) R. U.N.E. Co-Operative Ltd, University of New England, Armidale, NSW 2351 – 24 hrs.
6) Division of Postgraduate Extension Studies, University of New South Wales, P.O. Box 1, Kensington, NSW 2033 – Sen. Broadc. Officer: L.S. Porter – Mon-Fri 0500-1100(approx.).
7) Royal Melbourne Institute of Technology, 410 Elizabeth Str, Melbourne, Vic. 3000 – Officer-in-charge: J. Coulthurst – **D.Prgr:** 9/3 – 29/10: Mon-Fri 0115-0520 exc. on special holidays.
8) Music Broadc. Society of NSW Co-Operative Ltd, 5 Alexander Str, Crows Nest, NSW 2065. 0200-1500. **F.Pl:** 10kW.
9) University of Western Australia, Nedlands, WA 6009 – Mon-Fri 0700-1300(approx.).
10) Tasmanian College of Advanced Education, Launceston, Tasmania 7250.
11) Dept. of Communications, Mitchell College of Advanced Education, Bathurst, NSW 2795.
12) Northern Rivers College of Advanced Education, Lismore, NSW 2480.
13) Music Broadc. Society of Victoria, 146B Cotham Rd, Kew, Vic. 3101.
14) Gippsland Community R. Society, Traralgon, Vic. 3844.
15) Student Union, University of Queensland, St. Lucia, Qld. 4067. **F.Pl:** 1kW.

ETHNIC RADIO

1) 2EA 800kHz Sydney: 2100-1300.
2) 3EA 1120kHz Melbourne: 2100-300.
Prgr's: One hours prgr's in numerous immigrant languages.
1) c/o Christian Broadc. Ass. Studios, 420 Lyon Road, Five Dock 2046.
2) Box 1670, GPO, Melbourne 3001.

COOK ISLANDS

L.T: GMT–10½h – **Pr.L:** English, Maori.

COOK ISLANDS BROADCASTING AND NEWSPAPER CORPORATION

ADDR: P.O. Box 98, Rarotonga. **Te:** 100. **Cable:** Cooksnews.
L.P: Gen.Mgr: Michael Drollet.

STATIONS (G.C: 159.48W/21.11S):

Call	kHz	kW	Call	kHz	kW
ZK1ZC	600	10	ZK5	5045	0.5
ZK2ZC	820	1	ZK8	9695	0.5
ZK6	3265	0.5	ZK4	11760	1

HOME SCE. in English, Maori: On 600kHz: 1600-0830; On 820kHz: 1830-0830; On 5045kHz: 1600-1900, 0400-0900; On 11760kHz: 1900-0200. Alternate freq. for 11760 is 9695 and for 5045 is 3265kHz. **N. in English:** 1630, 1730, 1815, 1845, 1945, 2045, 2145, 2300, 0100, 0430, 0630, 0815(relay R.NZ or ABC). **N. in Maori:** 2330, 0130, 0545.

ANN: "This is Radio Cook Islands Calling" – **INT-SIG:** Symphony of Drums – **V.** by QSL-card. Rp.

FIJI

L.T: GMT+12h – **Pr.L:** English, Fijian, Hindustani – **E.C:** a/c 50, 240V (yes).

FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm, 50% cultural)

ADDR: P.O. Box 334, Suva. **Te:** 22621. **Cable:** Broadcom.
L.P: Chmn: W.G.J. Cruickshank, OBE. Gen.Mgr: H. Leonard. Dir. Tec: J.D. Sharan. Adv.Mgr: Sang Yee Joy.

STATIONS (G.C: 178.40E/18.10S): N=Netw.

Location	kHz	kW	N	Location	kHz	kW	N
Suva	560	10	1	Lautoka	890	10	2
Lautoka	640	10	1	Sigatoka	930	3	2
Labasa	680	2.5	1	Sigatoka	1210	2.5	1
Suva	710	10	2	Rakiraki	1320	2.5	1
Labasa	810	5	2	Rakiraki	1470	2	2

FM: 90.6MHz (Suva), 94.5MHz (Lautoka).

HOME SCE. in English, Fijian and Hindustani: 1755-1100. English and Fijian on R. Fiji One; English and Hindustani on R. Fiji Two; English on FM. **N. in English:** 1755, 1900, 2000, 0125, 0500, 0600, 0700, 0900, 1100.

ANN: "This is R. Fiji" – **INT-SIG:** Beat on Fijian Lali (Log-Drum) – **V.** by QSL-card – **F.PL:** 1570kHz (0.5kW) to be extended as a skywave sce. of Fiji at night (0600-1100).

GILBERT ISLANDS

L.T: GMT+12h – **Pr.L:** English, Gilbertese, Ellice.

GILBERT ISLANDS BROADCASTING SERVICE

ADDR: Broadc. Office, Tarawa. **Cable:** Broadcasts.
L.P: Sen. Broadc. Officer: M.D. Murray. Broadc. Officer: K. Tanielu. Broadc. Eng: W.G. Rapley.
STATION: VSZ-1 844kHz 10kW.
HOME SCE: in Gilbertese and English: 1830-2005(Mon-Fri), 0000-0200(W), 0630-0945(Sat 1030).
N: English: 1900, 0100, 0700. **Gilbertese:** 2000, 0750.
ANN: E: "This is R. Tarawa, the Gilbert Islands Broadc. Service" – **V.** by letter.

Get the up-to-the-minute news in the WRTH Newsletter. Now published 3 times a year. Write to the WRTH for more details!

GUAM (US Territory)

L.T: GMT+10h – **Pr.L:** English, Chamorro, Philippino – **EC:** a/c 60, 110/220V.

RADIO GUAM (Pr. Comm.)

ADDR: P.O. Box 368, Agana, Guam 96910. **Cable:** Kuam. **Te:** 777-9861.
L.P: Pres: H. Scott Killgore. Exec. Vice-Pres: Wm. B. Nielsen.
STATIONS (Agana): KUAM 610kHz 10kW.
FM: 93.9MHz 2.5kW.
HOME SCE. in English: 24h. **N:** Every h on the h.
ANN: "Kuam Agana; Guam" – **INT-SIG:** Voice and Jingle Form (Orchestra & Voices) – **V.** by letter and QSL-card – **F.PL:** 50kW on 630kHz.

TRANS WORLD RADIO (GUAM)

ADDR: P.O. Box 3518, Agana, Guam 96910.
L.P: Tec.Mgr: David Arthurs. Dir.Prgrs: Dan Harvey. Project Mgr: Rodger Groff.
STATION: Nimitz Hill, Agana KTWG 770kHz 10kW.
D.PRGR: 2000-1200 in English exc. Sun 0730-0800(Korean) & Wed/Sat 0730-0830(Vietnamese). **N:** 2100, 2200(W), 0000, 0200, 0300(Sun), 0400, 0600, 0700(Sat), 0800, 1000, 1100.
ANN: "You are listening to KTWG Agana" or "Trans World Radio Pacific" – **F.PL:** 2×100kW SW-tr's at Merizo to operate late 1976 towards East & South East Asia, Siberia and Australia (Call: KTWR).

MAGOF Inc. (Comm.)

ADDR: P.O. Box 3791, Agana, Guam 96910.
L.P: Pres: Donald C. Brown.
STATION: KATB 570kHz 5kW – **HOME SCE:** 2000-1400.
N: Every h on the half h from 2030.

AFRTS (Mil.)

ADDR: APO, San Francisco, Ca. 96640.
STATIONS: 10 low power st's (25W or less) operating on 1090, 1240, 1300(2), 1340, 1360, 1460, 1550, 1590 and 1600kHz.
Planned Stations: Guam Broadc. Co – KMAI 720kHz 10kW (late 1976 or early 1977), P.O. Box 2890, Agana, Guam 96910.

HAWAII (U.S. State)

L.T: GMT–10h – **Pr.L:** English, Japanese, Filipino.
EC: 60 c/s, mainly 120/240 V.

HAWAIIAN ASSOCIATION OF BROADCASTERS

ADDR: 1060 Bishop Str, 4th Floor, Honolulu 96813.
L.P: Pres: L.S. Berger.
Broadcast Services, Inc, 2877 Kalakaua Ave, Honolulu 96815. This company provides the technical sce's for several st's. C.E: A. Roycroft.

PRIVATE COMMERCIAL STATIONS

	Call	kHz	kW		Call	kHz	kW
1)	KMVI	550	5	12)	KPUA	970	5
21)	KIVM	570	5	13)	KHVH	1040	5
2)	KGMB	590	5	14)	KIOE	1080	5
15)	KIPA	620	5	16)	KLEI	1130	10
3)	KORL	650	10	17)	KOHO	1170	5
12)	KPUA	670	5	18)	KZOO	1210	1
4)	KKUA	690	10	19)	KNDI	1270	5
5)	KUAI	720	5	20)	KNUI	1310	5
6)	KGU	760	10	21)	KIVM	1350	5
7)	KKON	790	5	22)	KPOI	1380	5
8)	KIKI	830	10	23)	KCCN	1420	5
9)	KHLO	850	1	24)	KUMU	1500	5
10)	KAIM	870	5	25)	KISA	1540	5
11)	KAHU	940	10				

Addresses and other information:
Calendar days refer to local time. Abbreviations: See under USA comm. st's.
1) Box 550, Wailuku, Maui 96798 – S.M: Nora Cooper. P.D: J.C. Beckmeyer. C.E: S. Shiraishi – 24h Cont. Japanese: 13h. Filipino: 7h weekly. **N:** at :20, :40.

2) Box 581, Honolulu 96809 – G.M: E. McDaniel. P.D: G. Kennedy. C.E: D. Holland – 24h. MoR.
3) Box 27888, Honolulu 96827 – Mgr: Pat O'Day. P.D: L. Roberts. C.E: A. Roycroft – 24h. Top 40. **N:** at :15, :30, :45.
4) 765 Amana Str, Honolulu 96814 – G.M: R.S. Wilson. P.D: Ron Jacobs. C.E: G. Flynn – 24h. Top 40. **N:** at :55, :35.
5) Box 720, Eleele, Kauai 96705 – G.M: J.S. Short Jr. S.M: W. Dahle. C.E: M. Jones. 1500-1000 – MoR.
6) 605 Kapiolani Blvd, Honolulu 96813 – G.M: Don Metzger. P.D: B. Armstrong. C.E: A. Roycroft – 24h. MoR.

7) Box 845, Kealakekua, Hawaii 96750 – G.M: Mrs. C. Fujiwara. C.E: S. Sleightholm – 1530-1000. Good music. Japanese: 7h weekly.
8) 331-D Kamani Str, Honolulu 96813 – M: P. Strauss. P.D: Ron King. C.E: A. Roycroft – 24h. Progressive rock. Filipino: 4h weekly.
9) Waiakea Resort Village, 400 Hualani, Hilo 96720 – M: H. Kirk. P.D: Jay Michaels – 1430-1000. Top 40, Oldies, MoR. Japanese: 24h, Filipino: 3h weekly.
10) 3555 Harding Ave, Honolulu 96816 – G.M: C.R. Scott – P.D: T. Mathre. C.E: A. Roycroft – 1300-1005 in E. Non profit rlg, class. music. Filipino, Ilocano: 23h weekly.
11) Box 1007, Waipahu, Oahu 96797 – M: D. Hunnecut Jr. P.D: R. Lewis. C.E: A. Roycroft – 24h(C&W). Filipino: 11h weekly.
12) 58 Manaolana Place, Hilo 96720 – G.M: Hal Boudreau. P.D: M. Medeiros. C.E: H. Hironaka – 24h. Japanese W 1500-1600, Sun 1600-1800. **N**-1 and 1630, 1730. **F.Pl:** 10kW on 670kHz.
13) 1060 Bishop Str, Honolulu 96813 – G.M: L.S. Berger. P.D: E. Michelman. C.E: S. Kimata – 24h. All news.
14) 677 Ala Moana, Honolulu 96813 – G.M: M. Russell, P.M: S. Edwards. C.E: A. Roycroft.
15) 614 Kilauea Ave, Hilo 96720 – G.M: H. Gordon. P.D: C. Seavey. C.E: A. Roycroft. 1500-1200 in Japanese, Filipino, English. **N**-3.
16) 502 Kailua Rd, Kailua 96734 – M: T. James. P.D: J.H. Russell. C.E: A. Roycroft – Good music, big band.
17) 1140-A 12th Ave, Honolulu 96816 – G.M: I. Ishida. P.D: I. Murakami. C.E: A. Roycroft – Japanese 1400-1200. Cont.
18) 250 Ward Ave, Honolulu 96814 – G.M: T. Kobayashi. P.D: H. Oshita. C.E: A. Roycroft – 24h(Mon off 1000-1430) in Japanese+9h45min in Filipino. **N**-1. **N**-3 1600-1900.

19) Box 1516, Honolulu 96806 – G.M: J.T. Ownby. C.E: A. Roycroft – 24h in E, G, F, Japanese, Okinawan. Educational, rlg.
20) Box 35, Kahului, Maui, Hawaii 96732 – G.M: T. Elkins. P.D: R. Shane. C.E: J. Storm – 1430-1000. Popular. Japanese 4h, Filipino 11½h weekly.
21) Box 1748, Lihue, Kauai 96766 – M: R. Harding. P.D: J. Kennedy. C.E: A. Roycroft – 1430(Sat, Sun 1600)-1000(Sun 0800). MoR. Filipino 10h weekly. **N**-1. **F.Pl:** 5kW on 570kHz.
22) 1701 Ala Wai Blvd, Honolulu 96815 – M: F. Constant. S.M: Bob Brokman. C.E: A. Roycroft – 24h in E. Beautiful music.
23) Waikiki Business Plaza, 2270 Kalakaua Ave, Honolulu 96815 – G.M: J.A. Wethington. S.M: V. Opiopio. C.E: A. Roycroft – 24h. All Hawaiian music. Filipino 10h weekly.
24) 2005 Kalia Rd, Honolulu 96815 – G.M: J.H. Weiser Jr. P.D: C.J. Sharpe. C.E: A. Roycroft – 24h. Beautiful music.
25) 705 N. King Str, Honolulu 96817 – M: A. Rossi. P.D: N. de Lara. C.E: A. Roycroft – 2045-0915 Filipino.

JOHNSTON ISLAND (U.S. Terr.)

L.T: GMT+10h – **Pr.L:** English.

AFRTS Johnston Atoll (U.S. Air Force).
ADDR: APO, San Francisco, Calif. 96305.
L.P: St.Mgr: Robert S. Streeker, Jr.
STATIONS: Johnston Atoll 99.5MHz+101.1MHz both 0.05kW. **D.Prgr:** Stereo 101 is 24h Automation sce; 99.5 relays KGMB, Honolulu, Hawaii (all live radio on Johnston Atoll has ceased).

LORD HOWE ISLAND (Australian Territory)

L.T: GMT+11h – **Pr.L:** English.

RADIO LORD HOWE ISLAND
ADDR: Dept. of Civil Aviation, Lord Howe Island, NSW 2898, Australia.
STATION: 1490kHz 0.05kW – Station is on the air 5h mornings and 2h evenings (local time).

MARSHALL ISLANDS (US Terr.)

L.T: GMT+12h – **Pr.L:** English, Marshallese.

AFRTS RADIO (US Army)
ADDR: Box 23, APO, San Francisco, Calif. 96555.
L.P: St.Mgr: Jim Denny. Dir. of Music: Dave McGown.
STATION: Kwajalein "The voice of the Marshall Islands": 1220kHz 1kW. **FM:** 100MHz 1kW.
D.PRGR: 24h. **N:** hourly 1700-1200 – **V.** by letter.

MIDWAY ISLAND (U.S. Terr.)

L.T: GMT–11h – **Pr.L:** English.

NAVY BROADCASTING SERVICE (AFRTS)
ADDR: US Naval Station, Box 39 KMTH, FPO, San Francisco, Ca. 96614, USA.
L.P: Gen.Mgr: L. Haile. St.Mgr: Rob. C. Sommer. Chief Eng: C. Bell.
STATION: "The Voice of the Pacific".
KMTH 920kHz 0.25kW – 94MHz 0.05kW.
D.PRGRS: On 920kHz: 1900(Sat/Sun 2100)-1300(Sat 1500). On FM: 24h. **N:** on the h.

NAURU (Republic of)

L.T: GMT+11½h – **Pr. L:** English, Nauruan.

NAURU BROADCASTING SERVICE (Gov.)
ADDR: Nauru Broadc. Service, Republic of Nauru, Central Pacific. **Te:** 582. **Cable:** Broadserv, Nauru.
L.P: St.Mgr: David Agir. Dir.Tec: K. Jacob.
STATION: 1320kHz 0.13kW.
HOME SCE. in English and Nauruan: W 1900-2200, 0100-0200, 0515(Sat 0645)-1100(Sat 1130); Sun 2100-0015, 0330-1100.
N. in English, Nauruan: 1910(Tues-Fri), 0800(Mon-Fri), 0930(Mon-Fri). **Relay R. Australia:** Mon/Tues/Thurs/Fri 2200-0100, 0200-0515; Wed 0200-0515; Sat 2200-0100, 0200-0645; Sun 0015-0830.
Relay BBC-WS: 1100-1730(Sat 1130-2100).

ANN: "This is the call of the Nauruan Canary introducing R. Nauru broadc. on a frequency of . . . . . " – **V.** by letter.

NEW CALEDONIA (French)

L.T: GMT+11h – **Pr.L:** French – **E.C:** a/c 50, 127/220V (yes).

RADIO NOUMEA (Gov – France Region 3)
ADDR: B.P. G3, Noumea. **Cable:** St. Fr. 3. **Te:** 2856. **L.P:** Dir. Le Leizour. Dir. Tec: G. Guesdon. Dir. N: J.C. Turjman.
STATIONS (G.C: 166.26E/22.16S): 670kHz 20kW – 3355kHz 20kW – 7170kHz 20kW – 9510kHz 4kW – 11710kHz 4kW.

HOME SCE. in French: On 670kHz: W 1900-2100, 2330-0200, 0600-1100, Sun 2100-0200, 0600-1100. On 3355/11710kHz: 1900-2100, 0600-1100. On 7170/9510kHz: 2330(Sun 2100)-0200.
N. in French: 1900, 1930, 2000, 2030, 0045, 0800, 1055.
Wrp: 1930, 1955, 0000, 0100, 0800, 0900, 1055.

ANN: "Ici Noumea, Société France Region 3". **INT-SIG:** Call of the cagou bird – **V.** by QSL-card. Rp. Recordings accepted.

NEW HEBRIDES

L.T: GMT+11h – **Pr.L:** English, French, Pidgin.

NEW HEBRIDES BROADC. SCE (Gov.)

ADDR: P.O. Box 110, Port Vila.
L.P: British & French Inf. Officers: J. Hastie (British), C. Lassalas (French), R. Engineer: D. Palmer. Sen. Technician: W.D. Fallow.
STATIONS (G.C: 168.33E/17.44S):

YJB1 1420kHz 1kW — YJB4 3945kHz 2kW
YJB7 4975kHz 2kW

HOME SCE: Mon-Fri 0300-0200, 0545-0945(or 1000) on 1420/3945kHz. **N:** English 0630, Pidgin 0650, French 0900. **V.** by QSL-card. Reports to Technical Division, NHBS, P.O. Box 110, Port Vila.

RADIO TANAFO

(operated by the Na-Griamel Federation)
ADDR: Tanafo, Espiritu Santo.
L.P: Pres: J.M. Stevens.
STATION: 3990kHz 0.06kW.
HOME SCE. in Pidgin: 1930-2030, 0730-0900 (English identification rep. at 0800).
ANN: E: "This is R. Tanafo broadc. from Espiritu Santo" – **V.** by QSL-card – **F.PL:** Prgrs in English & French.

NEW ZEALAND

L.T: GMT+12h (Oct-Apr: GMT+13h) – **Pr.L:** English, Maori.
EC: a/c 50, 230/400 (yes).

POST OFFICE HEADQUARTERS

Wellington. **Cable:** Radiodiv – **L.P:** Dir.Gen: W.J. Sewell. Chief Eng: E.W. de Liste.

BROADCASTING COUNCIL OF NEW ZEALAND

Responsible for all transmission operations and exercises servicing and supervisory functions in respect of broadcasting corporations.
ADDR: P.O. Box 98, Wellington. **Te:** 721-777. **Cable:** Broadserv. **Telex:** NZ 3867.
L.P: Secr: K.M. Hay. Assist.Secr: C. Marshall. Contr. Engineering Sce's: A.K. Richardson. Overseas Liaison Officer: J.S. McLeod.
PUB: "The New Zealand Listener" (Home Sce Radio & TV prgrs): $NZ 10.40 annually.

RADIO NEW ZEALAND

(Statutory Public Body)
ADDR: P.O. Box 2092, Wellington. **Te:** 721-777. **Cable:** Radionet. **Telex:** NZ 3867.
L.P: Dir.Gen: G. Whitehead. Asst. Dir.Gen: G.R. Sanders. Contr.Prgrs: Miss B.A. Wakem. Head Eng. Services: P.E. Rollo. Editor News & Curr. Affairs: G.W. Harte.
STATIONS: YA, YB, YW, YX, YZ, YM st's are also non-comm. and belongs to the Nat. prgr; YC st's are also non-comm. and belong to the Concert Prgr; Z st's carry comm. adv.

	Call	kHz	kW	H. of tr.
Wellington	2YA	570	100	24h
Napier	2YZ	630	20	24h
Alexandra(r)	4YW	640	2	24h
Wellington	2YC	660	60	a)
Christchurch	3YA	690	20	24h
Invercargill	4YZ	720	20	24h
Greymouth	3ZA	750	2	1800-1105
Auckland	1YA	760	20	24h
Dunedin	4YA	780	20	24h
Wellington	2YB	800	20	*)
Invercargill	4ZA	820	10	1800-1200
Whangarei	1YX	830	2	24h
Masterson	2ZD	840	2	1800-1105
Rotorua	1YZ	860	10	24h
Auckland	1YC	880	10	as 2YC
Dunedin	4YC	900	10	as 2YC
Greymouth	3YZ	920	10	24h
Palmerston No.	2ZA	940	2	1800-1200
Christchurch	3YC	960	10	as 2YC
Whangarei	1ZN	970	2	1700-1105
Wellington	2ZB	980	20	1800-1200
Tauranga	1ZD	1000	10	1700-1105
Kaitaia(r)	1YK	1010	2	24h
Dunedin	4ZB	1040	10	1800-1200
Kaikohe(r)	1YE	1050	2	24h
Gisborne	2ZG	1060	2	1800-1105
Auckland	1ZB	1070	10	1700-1200
Christchurch	3ZB	1100	10	1800-1200
Queenstown(r)	4YQ	1120	2	24h
Wellington	2ZM	1130	2	1800-1200
Hamilton	1YW	1140	2	24h
Nelson	2YX	1150	1	24h
Timaru	3ZC	1160	2	1800-1105
Gisborne	2YW	1180	2	24h
Wanganui	2ZW	1200	2	1800-1105
Kaikohe(r)	1ZE	1220	2	1700-1105
Auckland	1ZM	1250	2	1800-1200
Napier	2ZC	1280	2	1800-1200
Hamilton	1ZH	1310	2	1700-1200
Nelson	2ZN	1340	2	1800-1105
Rotorua	1ZC	1350	2	1700-1105
New Plymouth	2ZP	1370	2	1800-1105
Turangi(r)	1ZT	1390	0.1	24h
Christchurch	3ZM	1400	2	1800-1200
Palmerston Nth	2YM	1410	1	24h
Tokoroa	1ZO	1420	2	24h
Kaitaia(r)	1ZK	1440	2	1700-1105
Westport(r)	3YW	1460	2	24h
Taupo	1ZA	1500	2	24h
Taumarunui	1ZU	1520	1	24h
Blenheim	2ZE	1540	1	1800-0200
Twizel(r)	3ZO	1550	0.1	1800-1105
Hawera(r)	2ZH	1560	1	1800-1105

*) comes on the air to broadcast YA's prgr's when the st. is broadc. from Parliament. (r)=repeater st.
a) Mon-Fri 1800-2230, 0500(Fri 0100)-1200; Sat/Sun 2000-0030, 0500(Sun 0300)-1200.

NEWS (Nat.Prgr): On 570/630/690/720/760/780/800/830/860/920/1050/1140/1150/1180/1460kHz: 1200, 1300, 1400, 1600, 1700, 1800, 1830, 1900, 1930, 1955, 2030, 2100, 2200, 2300, 2400, 0030, 0200, 0300, 0400, 0500, 0600, 0830, 1000, 1200.
News in Maori: Sun 1750, Tues 1755, Fri 1755.
News in Samoan: Thurs 1755.
News in Rarotongan: Thurs 1755.
Dominion Weather: 1210, 1500, 1730, 1835, 1915, 2000, 2104, 0033, 0305, 0400, 0505, 0631, 0840, 1038.

NEWS (Comm. Net): On 750/820/840/940/970/980/1000/1040/1060/1070/1100/1160/1200/1220/1280/1310/1340/1350/1370/1440/1540/1550kHz: W 1800, 1830, 1900, 1930, 2000, 2030, 2100, 2200, 2300, 0000, 0030, 0100, 0130, 0200, 0300, 0400, 0500, 0600, 0630, 0700, 0800, 0900, 1000, 1100, 1200. Sun 1800, 1900, 2000, 2100, 2200, 2300, 0000, 0100, 0300, 0600, 0630, 0700, 0800, 0900, 1000, 1100, 1200.

NEWS (Concert Prgr): *1800(R.NZ), *1845(BBC & N. about Britain), *1930(R.NZ), 2000(BBC), 2100(R.NZ), 2220(R.NZ), 1100(BBC) – *) Mon-Fri only.

WRTH has the best and most complete information on short-wave than any other publication.

OVERSEAS SERVICE

ADDR: Radio New Zealand, P.O. Box 2092, Wellington. **Te:** 721-777. **Cable:** Radionet.
L.P: Mgr.Overseas Prgr. Unit(Tech): R. Geoffrey Haggett. (P.O. Box 98). Reg.Eng: J. Heyhoe. Transmitter Supervisor: N. Owen. Supervisor Quartz Hill Receiving St: A. Hay.
STATIONS (G.C: 174.50E/41.05S): 2×7.5kW tr's.

kHz	kHz	kHz	kHz
6105	9770	11780	11960
9540	11705	11795	15130

Pacific Service (Beam 30°)

Times	kHz	Times	kHz
1800-2015	9770	0100-0450	11705c
1800-2105	11780a	0500-0700	9540
2030-0050	11960	0500-1030	11780d
2030-0450	15130	0500-1030b	6105
2230-0450b	15130		

a) 6105kHz (May-August); b) May-August; c) 11795kHz (May-August); d) or 6105kHz (Spring & Autumn).
Australian Service (Beam 285°)
0730-1030 on 6105kHz (all year round).
PRGRS: Rebroadcast of Domestic Services, Nat. Prgr. and Sporting Sce.
N: 1800,1830,1900,1930*,1955**,2000*,2030**,2100,2300 (W), 0000,0200**,0300**,0400*,0500**,0600,0830,1000 – *) Sat/Sun only; **) Mon-Fri only.
Vernacular: Maori: Sun 0530. **N:** 0555(Sun), 0555(Tues, Fri). **N. in Samoan:** 0555(Mon). **Cook Island N:** 0555(Thurs) – **Pacific Music:** Mon 0700.
DX-PRGR's: Arthur Cushen's "DX World": 1st Sun 1015. **Mailbox:** 3rd Sun 1015.
ANN: "This is the National Prgr. and Short Wave Sce. of R. New Zealand" or "This is (local station ident) and Short Wave Sce of R. New Zealand".
INT-SIG: Call of N.Z. Bellbird, with other Bird Calls during prgr. **V.** by Q.S.L-card only if rec. report accompanied by I.R.C.

PRIVATE COMMERCIAL STATIONS

	Call	kHz	kW	Name and h. of tr
1)	2XW	890	5	R. Windy, Wellington: 24h
2)	1XW	930	2	R. Waikato, Hamilton: 24h
3)	4XO	1210	2	R. Otago Ltd, Dunedin: 24h
4)	1XX	1240	2	R. Whakatane Ltd: 1700-1230
4)	1XX	1240	0.1	Galatea (repeater)
5)	3XA	1290	2	R. Avon Ltd, Christchurch: 24h
6)	1XA	1480	5	R. Hauraki Ltd, Auckland: 24h
7)	1XI	1590	5	Radio I Ltd, Auckland: 24h

Addresses and other information:
1) Capital City Radio Ltd, P.O. Box 558, Wellington – St.Mgr: M.B. Swift. Dir.Tec: A. Simmonds. **N:** On the h. 1800-0700.
2) Independent Broadc. Co. Ltd, P.O. Box 9300, Hamilton – St.Mgr: I. Johnson. Dir.Tec: V.G. Talbot. **N:** on the h. 1800-0600 and at 1830,1930,2030,0030,0130.
3) Radio Otago Ltd, P.O. Box 1210, Dunedin – Gen.Mgr: W. Rutherford. St.Mgr: D. Lamb. Dir.Tec: R. Phipps. **N:** on the h. and half h.
4) R. Whakatane Ltd, P.O. Box 388, Whakatane – St.Mgr: T. Egerton. Dir.Tec: G. Bryce. **N:** on the h.
5) R. Avon Ltd, P.O. Box 1290, Christchurch – Gen.Mgr: N. Wesney. Dir.Tec: I. Kirkpatrick. **N:** on the h.
6) R. Hauraki (N.Z.) Ltd, P.O. Box 1480, Auckland – Man.Dir: D. Gapes. Chief Eng: C.G. Prowse. **N:** on the h.
7) R. I Limited, P.O. Box 8504, Auckland – Man.Dir: C.G. Mason. St.Mgr: R. Whittaker. Operations Mgr: B. Gracie. **N:** on the half h.

UNIVERSITY STATIONS

(operates a few weeks in March)
1XB R. Bosom Auckland, 950kHz 0.1kW.
4XT R. Randy, Dunedin, 1230kHz 0.1kW.

Remind your friend about the new edition of the WRTH!

He'll be grateful.

NIUE ISLAND (NZ Dependency)

L.P: GMT–11h – **Pr.L:** Niuean, English.

BROADCASTING DIVISION, INFORMATION OFFICE (Gov.)

ADDR: Information Office, Administrative Dept, P.O. Box 67, Alofi, Niue Island. **Cable:** Commr Niue.
L.P: Resident Commissioner: C.A. Roberts.
STATION: Alofi ZK2ZN 620kHz 0.25kW.
HOME SCE: 1700-1900(Tues-Sat), 1700-2300(Sun), 2300-0030(Mon-Fri), 0500-0800(Mon-Sat).
Station is silent on Mon (i.e. Sun Niue time).
ANN: E: "This is the call of Niue St. ZK2ZN". Niuean: "Ko e Leo Taogo ha Niue a nai. ko e ZK2ZN" – **V.** by letter. Rec. acc. Rp. preferred.

NORFOLK ISLAND (Australian Territory)

L.T: GMT+11½h – **Pr.L:** English.

NORFOLK ISLAND BROADCASTING SERVICE (Gov.)

Owned by the Norfolk Island Adm. and under the technical direction of the Australian Telecommunications Commission.
ADDR: Norfolk Island Administration, Kingston.
L.P: Broadc. Officer: Mrs. K. Le Gren.
STATION (G.C: 167.56E/20.03S):
VL2NI 1570kHz 0.05kW.
HOME SCE. in English: W 1900-0430; Sat 2330-0630; Sun 0430-1015.
ANN: "Norfolk Island Broadc. Sce, St. VL2NI".
V. by letter. Rp.

PAPUA NEW GUINEA

L.T: GMT+10h – **Pr.L:** English, Melanesian, Pidgin, Hiri Motu+30 Vernacular languages – **E.C:** a/c 50, 240/415V (no).

NATIONAL BROADCASTING COMMISSION OF PAPUA NEW GUINEA

ADDR: National and District Networks, P.O. Box 1359, Boroko. **Te:** 25 5233. **Cable:** Natbroadcast.
L.P: Chmn: S. Piniau.
STATIONS
N=Nat. Sce; D=District Sce.
All district sts are operating 0700-1200 only.

	Call	kHz	kW		St/Times
1)	—	670	2	N	Lae: 2000-1401
1)	—	810	2	N	Rabaul: 2000-1401
1)	—	860	2	N	Madang: 2000-1401
1)	—	900	2	N	Goroka: 2000-1401
1)	—	1250	2	N	Port Moresby: 2000-1401
1)	—	1520	2	N	Wewak: 2000-1401
2)	—	2340	2	D	R. West New Britain
3)	—	2376	2	D	R. Chimbu
4)	—	2410	2	D	R. Eastern Highlands
5)	—	2428	2	D	R. New Ireland
6)	—	2450	2	D	R. Western Highlands
7)	—	2468	2	D	R. Northern District
8)	—	3205	2	D	R. West Sepik
9)	—	3220	2	D	R. Morobe
10)	—	3245	2	D	R. Gulf District
11)	—	3260	2	D	R. Madang
12)	—	3275	2	D	R. Southern Highlands
13)	—	3305	10	D	R. Western District
14)	—	3290	2	D	R. Central
15)	—	3322	10	D	R. Bougainville
16)	—	3335	10	D	R. East Sepik
17)	—	3360	10	D	R. Milne Bay
18)	—	3385	10	D	R. East New Britain
19)	—	3905	2	D	R. Manus, Lorengau

Call	kHz	kW		St/Times
1) P2K3	3925	10	N	Port Moresby: 2000-2230 0530-1400
1) P2K4	4890	10	N	Port Moresby: 2000-2215, 0530-1400
1) P2T9	9520	10	N	Port Moresby: 2200-0800

Addresses and other information
National Service
1) Box 1359, Boroka. **Cable:** Natbroadcast. **Telex:** NE 22112.
L.P: Chmn: S.M. Piniau. Dir.Prgrs: C. Kelsimur. Dir.Tec: R.T. Pearson. Dir.N: C. Rangatin. Prgrs in English, Pidgin, Hiri Motu, Kuanua. **N.** in English: 2000(W), 2045, 2145(W), 2245(Sun), 0230, 0330(exc. Sat), 0600(Mon-Fri, 0800(exc. Sat), 0900, 1100, 1300. **V.** by QSL-card. Rp. Specific prgr. details, time, frequency, date required for verification.
District Service
2) P.O. Box 142, Kimbe – Mgr: S. Patiliu – Prgrs in Pidgin.
3) P.O. Box 228, Kundiawa – St.Mgr: J. Kepagane. Dir.Tec: R.N. Thompson – Prgrs in Pidgin, Kuman and local dialects.
4) P.O. Box 311, Goroka – Mgr: A. Nase – Prgr. in Pidgin, Gahuka, Kafe.
5) P.O. Box 140, Kavieng – St.Mgr: J. Gohan – Prgrs in Pidgin.
6) P.O. Box 311, Mount Hagen – St.Mgr: B. Korowaro – Prgrs in Pidgin, Mid-Wahgi, Medlpa, Enga.
7) P.O. Box 137, Popondetta – Mgr: R. Saini – Prgrs in English, Orokaiva, Hiri Motu, Ewage.
8) West Sepik.
9) P.O. Box 1262, Lae – St.Mgr: M. Pileng – Prgrs in Pidgin.
10) P.O. Box 36, Kerema – Mgr: R. Karahure – Prgrs in Hiri Motu, Kamea, Toaripi.
11) P.O. Box 2036, Madang – St.Mgr: J. Koniel – Prgrs in Pidgin.
12) P.O. Box 104, Mendi – Mgr: A. Sahoto – Prgrs in Pidgin + local vernaculars.
13) P.O. Box 23, Daru – St.Mgr: S.R. Wainetti – Prgrs in English, Hiri Motu.
14) P.O. Box 1359, Boroko – St.Mgr: P.R. Sampson – Prgrs in English, Hiri Motu.
15) P.O. Box 35, Kieta – St.Mgr: A. Edoni – Prgrs in Pidgin.
16) P.O. Box 65, Wewak – St.Mgr: M. Gugutimi – Prgrs in Pidgin.
17) P.O. Box 111, Alotau – St.Mgr: D. Samano – Prgrs in English, Hiri Motu.
18) P.O. Box 393, Rabaul – St.Mgr: J. Ainui – Prgrs in Pidgin, Kua.
19) P.O. Box 10, Lorengau – St.Mgr: D. Pahapat – Prgrs in Pidgin.
F.PL: Station at Enga.

PHOENIX ISLANDS (US Terr.)

L.T: GMT – 11h – **Pr.L:** English.

Canton Island

RADIO STATION WXLE (Gov.)

ADDR: Radio WXLE, Box 1276, Global Associates, Canton Island, Phoenix Islands 96736.
L.P: St.Mgr: James A. Nolan.
STATION: WXLE 1385kHz 0.25kW – **D.Prgr:** 24h.
N: on the h – **V.** by QSL-card.

SAMOA (American)

L.T: GMT–11h – **Pr.L:** Samoan, English.

RADIO SAMOA LTD (Comm.)

ADDR: P.O. Box 280, Pago Pago, 96799. **Te:** 688-7511.
L.P: Pres: L.S. Berger. Gen.Mgr: R.E. Pritchard. Dir. of Prgrs: M.F. Lutu. Dir.Tec: Sam Hall.
STATION: Leone WVUV 1120kHz 10kW.
HOME SCE. in English and Samoan: 24h (music, news, public affairs) (50% English, 50% Samoan).
ANN: "This is WVUV, R. Samoa, the News and Music Centre of the South Pacific" – **V.** by letter.

SAMOA (Western)

L.T: GMT–11h – **Pr.L:** Samoan, English.
EC: a/c 50,230V (no).

SAMOA BROADCASTING SERVICE (Gov, Comm).

ADDR: P.O. Box 200, Apia. **Te:** 1030. **Cable:** Voxpac.
L.P: Dir: J.W. Moore. Dep.Dir: L. Levi. Techn. Supervisor: J.K. Brown. Prgr. Organiser: F. Faaiuaso.
STATIONS: Apia 2AP.
1050kHz 3kW (channel 2): English
1420kHz 10kW (channel 1): English & Samoan.
HOME SCE. in English and Samoan (on 1420kHz): W 1700-1000; Samoan 0400-1000, Rlg. Sce's Sun: 2000-0200, 0500-0830 (Bilingual 2000-0200, 0500-0630, Samoan 0630-0830).
N. in English: 1745, 1830, 2330, 0530, 0615, 0730.
N. in Samoan: 1750, 1835, 2335, 0615, 0730.
English (on 1050kHz): W 0400-1000; **N:** 0400, 0600, 0800, 0900 (ABC or R.NZ).
Note: Although times are GMT, calendar days apply to Western Samoa only.
ANN: E: "2AP Apia, The Samoa Broadc. Service" – **INT-SIG:** Gong – **F.Pl:** 8 repeater st's of 1kW by mid 1977.
AD: Accepts comm. adv. throughout the day on weekdays.

SOLOMON ISLANDS

L.T: GMT+11h – **Pr.L:** Pidgin, English – **E.C:** a/c 50, 240V.

SOLOMON ISLANDS INFORMATION AND BROADCASTING SERVICE (Gov Dept.)

ADDR: P.O. Box 1, Honiare. **Te:** 888. **Cable:** Broadcasts.
L.P: Dir: R.J. Hosking. Engineer: B. Nokes. Studio Mgr: P. Mae.

STATIONS (G.C: 160.03E/09.25S) (3 studios):

VQO	1030kHZ	5kW	all times
VQO5	5015kHZ	5kW	all times
VQO9	9545kHz	5kW	2130-0230

HOME SCE: Nat.Sce: W 1900-2200, 0600-1130; Sat/Sun 1900-2200 on 5015kHz, D 2130-0300 on 9545kHz. **Reg.Sce:** 1900-1130 on 1030kHz.
N. in English (BBC or R. Australia): 2200, 2330, 0130, 0700, 1100. **Pidgin:** 0745.
Local N: English: 2010, 0140, 1110; **Pidgin:** 1900,0800.
ANN: "This is the Nat/Reg. Sce of Solomons Radio" – **INT-SIG:** Drum and Bamboo Pipes – **V.** by QSL-card. Re. must contain details to establish authenticity.

SOCIETY ISLANDS (French)

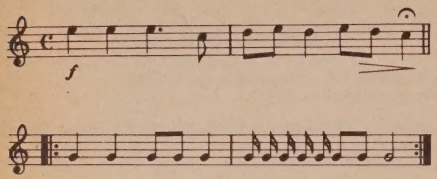
L.T: GMT–10h – **Pr.L:** French, Tahitian – **E..C:** a/c 60, 120/240V (yes).

Tahiti

FRANCE REGIONS 3 (FR3)

ADDR: B.P. 125, Papeete. **Te:** 20551. **Cable:** 091FP FROMRTT.
L.P: St.Dir: H. Sire. Dir.Prgrs: P. Bardin. Dir.Tec: M. Satti.
STATIONS (G.C: 149.00W/17.00S):
740kHz 20kW – 6135kHz 4kW – 9750kHz 4kW – 11825kHz 20kW – 15170kHz 20kW.
HOME SCE: 1600-0730.
French: 1600-2045, 2200-0300, 0600-0730. **N:** 1615, 1715, 1730, 1800, 2230, 0245, 0720. **Tahitian:** 2045-2200, 0300-0600. **N. in Tahitian:** 1615, 1645, 2130, 0500. **N. in English:** W 1900.
Although times are GMT, calendar days apply to Tahiti only.

ANN: F: "Ici Tahiti France Regions ?". Tahitian: "O Tahiti teie te tuhaa toru" – **INT-SIG:** Tahitian flute (vivo) and drums – **AD:** D 2145, 0343.



TONGA (Kingdom of)

L.T: GMT+13h – **Pr.L:** Samoan, Fijian, Tongan, English.

TONGA BROADCASTING COMMISSION
(Independent Statutory Board)

ADDR: P.O Box 36, Nuka'alofa. **Cable:** Broadcom.
L.P: Mgr: S.T. Fusimalohi. Supervising Technician: Keith Ritchiel(to June 77).
STATION: A3Z 1020kHz 10kW (G.C: 174.30W/21.30S).
HOME SCE: In Tongan, English: 1800-2100, 2300-0100, 0530-1000. **N. in Tongan:** 1845,0615. **N. in English:** 1800 (BBC), 1900 (ABC), 0015 (NZBC), 0700 (ABC). **Samoan:** Tues, Thurs 0900. **Fijian:** Fri 0900.
ANN: E: "This is the Call of the Friendly Islands A3Z Nuku'alofa of the Tonga Broadc. Commission". Tongan: "Ko e Ui ènì'a e'Otu Felenite, mei he A3Z Nuku'olofa 'a e Komisoni Fakamafola Lea Tonga" – **INT-SIG:** Tongan Nose Flute – **V.** by QSL-card. Recordings accepted – **FI:** Revenue from adv.

WWH-WELTWEIT HÖREN

AG DX

Größte monatlich erscheinende deutschsprachige Zeitschrift für Rundfunk-Fernempfang

Organ der bedeutendsten DX-Clubs der Bundesrepublik Deutschland und Österreichs.

Nähere Informationen erhältlich bei:
Wilfried Gärtner
Ithstraße 10
D-3000 Hannover 21
Federal Republic of Germany

TUVALU
(former Ellice Islands)

L.T: GMT+12h – **Pr.L:** English, Ellice

TUVALU BROADCASTING SERVICE
STATION: Funafuti 580kHz 2kW.
HOME SCE. in Ellice, English: 1830-2005, 0000-0200(W), 0630-0945(Sat 1030).
ANN: E: "This is R. Tuvalu".

TRUST TERRITORY OF THE PACIFIC ISLANDS
(MICRONESIA)

(Marianas Islands (exc. Guam), Caroline Isl. Marshall Is.)

L.T: Marshalls GMT+12h; Ponape GMT+11h; Truk, Yap, Marianas GMT+10h; Palau GMT+9h – **Pr.L:** Chomorro, Yapese, Ulithi, Palauan, Trukese, Marshallese, Kusaiean, Carolinian, Kapangimarangi, English.
ADDR: Head Office: High Commissioner, Trust Territory of the Pacific Islands, Saipan Mariana Islands 96950.
L.P: Chief, Broadcast Div: Elias H. Thomas. Dir. of Public Affairs: Strik Yoma. Information Dept: E. Sippur.
Studios: Ponape, Eastern Caroline Islands. 96941 (WSZD): St.Mgr: H. Johnny; Truk Eastern Caroline Islands. 96942 (WSZC); St.Mgr: K. Peter; Saipan, Mariana Islands. 96950 (KJQR): St.Mgr: Rudy Sablan; (WSZE): Micronesia Broadc. Corpo, Royal Taga Hotel, Saipan. Pres: H. Scott Killgore; Palau District Koror, Western Caroline Islands. 96940 (WSZB); St.Mgr: Herman Rodas; Marshall Islands District, Majuro, Marshall Isl. 96950 (WSZO): St.Mgr: Samuel Jordan; Yap District, Western Caroline Isl. 96943 (WSZA): St.Mgr: Antonious Yug.

STATIONS	Call	kHz	kW	H. of tr.
Yap	WSZA	1480	1	2000-1400
Koror	WSZB	1500	1	2100-1500
Truk	WSZC	1300	5	2000-1400
Ponape	WSZD	1450	10	1900-1300
Majuro	WSZO	1100	10	1800-1200
Saipan	KJQR	1350	1	2000-1400
Navy Hill (Saipan)	WSZE	1050	1	2000-1300

FM(WSZE): 93.9MHz 0.2kW (relay 1050kHz)
G.C: Yap 137E/10N, Koror 133E/7N, Truk 151E/7N, Ponape 157E/7N, Majuro 170E/7N, Saipan 144E/16N (Navy Hill: 145.46E/15.12N).
PROGRAM: Education and entertainment. Languages: **English** and **Local vernacular** of each district.
ANN: Ponape: "This is R. St. WSZD, Ponape – Met. St. WSZD Nam Ponape". Truk: "This is R. St. WSZC in Moen Truk – Ach nenien appoi WSZC non nomun Truk". Saipan: "This is R. St. KJQR Saipan". Koror: "This is R. St. WSZB, Koror, Palau". Majuro: "This is R. St. WSZO Majuro". Yap: "This is R. St. Yap" – **V.** by letter (all sts).

WAKE ISLAND (US Terr.)

L.T: GMT+12h – **Pr.L:** English.

AFRTS (US Air Force)
ADDR: APO, San Francisco, Calif. 96501
STATION: 1490kHz 0.05kW.
D.PRGR: 1800-1200.

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CANADA
GREENLAND
0
500
1000
1500 KM
G.M.T.-11
G.M.T. -10
G.M.T. -9
-8
-7
-6
-5
G.M.T. -4
ARCTIC OCEAN
BEAUFORT SEA
BAFFIN BAY
Alaska
(U.S.A.)
ARCTIC CIRCLE
NOME
FAIRBANKS
NORTH POLE
TUKTOYAKTUK
District of Franklin
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GODHAVN
SØNDRE STRØMFJORD
SIMIUTAK
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STRAIT OF DENMARK
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REPULSE BAY
WAGER BAY
FROBISHER BAY
District of Keewatin
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NORTH ATLANTIC OCEAN
SUGLUK WEST
KINGWA
OKKAK
HOPEDALE
JUNEAU
LIARD
FORT NELSON
HAY RIVER
FORT RESOLUTION
FORT SMITH
British Columbia
Alberta
NONALA
HUDSON BAY
Newfoundland
– 3.30
KETCHIKAN
NORTH PACIFIC OCEAN
PRINCE RUPERT
FORT ST. JOHN
DAWSON CREEK
SMITHERS
GRAND PRAIRIE
Queen Charlotte Islands
PRINCE GEORGE
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CHURCHILL
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HAPPY VALLEY
ST. ANTHONY
GANDER
BAIE VERTE
ST. JOHN'S
GRAND FALLS
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CRANBROOK
LETHBRIDGE
REGINA
BRANDON
WINNIPEG
VAL D'OR
TIMMINS
ROUYN
TROIS RIVIERES
SAINT JOHN
Nova Scotia
THUNDERBAY
ALTONA
THETFORD MINES
Lake Superior
SUDBURY
NORTH BAY
MONTREAL
HULL
SHERBROOKE
OTTAWA
CORNWALL
SAULT STE. MARIE
KINGSTON
PETER-BOROUGH
L. Huron
TORONTO
L. Ontario
GUELPH
HAMILTON
Lake Michigan
LONDON
L. Erie
UNITED STATES
165°
150°
135°
120°
105°
90°
75°
60°
45°

NORTH AMERICA

ALASKA (U.S. State)

L.T: GMT–10h(Bering: GMT–11h) (cf. World Time table).

Pr.L: English – **E.C:** a/c 60, 120/240V.

ALASKA BROADCASTERS ASSOCIATION
3910 Seward Hwy, Anchorage 99503.
L.P: Pres: D. Lobdell.
STATIONS: All commercial exc. 3, 9, 11, 13.

	Call	kHz	kW	H. of tr.
1)	KENI	550	5	24h
2)	KVOK	560	1	24h
3)	KYUK	580	5	1630-1030
4)	KHAR	590	5	24h
5)	KRKM	600	1d	
6)	KJNO	630	1/0.5	1400-0800
7)	KYAK	650	50/25d	24h
8)	KFAR	660	10	1600-1000
9)	KDLG	670	5/1	1600-0800
10)	KBRW	680	10/5	
11)	KBYR	700	1/0.5	24h
12)	KOTZ	720	5	1600-1400
13)	KFQD	750	30/10	24h
14)	KNOM	780	10/5	1700-1100
15)	KCAM	790	5	1600(Sun 1700)-1000
16)	KINY	800	5	1400-0800(Sat/Sun 24h)
17)	KICY	850	5	1657(Sun 1757)-1100
18)	KFRB	900	10	24h
19)	KSRM	920	5	1530-0930
20)	KTKN	930	5/1	1400(Sun 1645)-0800
21)	KRXA	950	1	Mon-Thurs 1700-0500; Fri/Sat 1700-1400
22)	KIAK	970	5	1500-1100
23)	KANC	1080	5	1150-
24)	KJNP	1170	30d	24h(winter)
25)	KIFW	1230	0.25	1400(Sun 1500)-0707(Sat 0616)
26)	KLAM	1450	0.25	W 1730-2200, D 0300-0800

Addresses and other information:
Calendar days refer to local time. Abbreviations: See under USA comm. st's.
1) Box 1160, Anchorage 99510 – G.M: A.O. Bramstedt. C.E: C.M. Gray – Progressive RR.
2) Box 53, Kodiak 99615 – Mgr: L.F. Bridges, P.D: M.W. Bridges. C.E: R.L. Bridges – MoR.
3) Box 468, Bethel 99559 – Mgr. & C.E: H. Ivanoff. P.D: M. Shinn. **N:** 1700, 2200, 0400 in E; 0100, 0300 in Yupik Eskimo – MoR.
4) 3900 Seward Hwy, Anchorage 99503 – G.M: Wm Allen. P.D: K. Flynn. C.E: M. Holmes – Good music. **N**-1.
5) North Pole (under construction).
6) Box 929, Juneau 99802 – G.M: D. Egan. C.E: Don Erisman – MoR.
7) 2800 East Dowling Rd, Anchorage 99507 – G.M: R.W. Fleming. P.D: Jim Robbins. C.E: N. Fish – Country music. **N**-1. Silent Mon 1001-1500.
8) Box 910, Fairbanks 99701 – S.M: D.G. Anden. P.D: C. Sandburg. C.E: Don Garrett – Cont.
9) Box 670, Dillingham 99576 – G.N. & C.E: P. Davis. P.D: S. Diseth. **N**-1.
10) Box 546, Barrow 99723.
11) Box 2200, Anchorage 99510 – G.M: Ron L. Moore. P.D: B. Kier. C.E: G. Howard – MoR.
12) Box 78, Kotzebue 99752 – Mgr. & C.E: Jim McCurdy. P.D: S. Nietman – MoR. **N**-1.
13) 9200 Lake Otis Parkway, Anchorage 99507 – G.M: Roy Robinson. P.D: M. Lewis. C.E: G. Allred. Cont./Golden. **N**-2.
14) Box 988, Nome 99762 – G.M: T.A. Busch. P.D: N. Berger. C.E: M. Hoelsken. MoR, C&W, educational. **N:** at :55.
15) Box 125, Glennallen 99588 – G.M: C. Callis. Asst. Mgr: F.D. Lambert. C.E: D. Buchanan – MoR, C&W, rlg. **Athabascan Indian** ½h Sun afternoon. **N**-1.
16) 231 S. Franklin, Juneau 99801 – G.M: J.A. Foley Sr. P.D: C. Benson. C.E: M.R. Weatherly.
17) Box 820, Nome 99762 – S.M: R.V. Fondell. P.D: S.R. Summers. C.E: E.J.D. Swanson – C&W. St. partly rlg. **N**-1. Prgrs also in **Eskimo dialects** (50 min's daily) and **Russian** (45 min's daily).
18) Box 950, Fairbanks 99701 – G.M: T. Lehne. Op's Mgr: Bob Hamme. C.E: J.W. Foster – News, talk, MoR (silent Mon 1400-1700).
19) Box 950, Soldoma 99669 – G.M: J.C. Davis. C.E: B. Hendrickson – Sports, MoR, C&W. **N**-1.
20) Box 2347, Ketchikan 99901 – G.M: R.D. Jensen.
21) Box 276, Seward 99664 – G.M: W.E. Fletcher, P.D: M.J. Goodwin. C.E: B. Whitmore. MoR, C&W. Prgrs also in **Aleutian Eskimo. N**-1.
22) Box 2828, Fairbanks 99707 – S.M: R.W. Lobdell. C.E: T.A. Busch, Modern country music.
23) Box 4-2287, Anchorage 99509 – G.M: J.R. Garland. P.D: B. Parker. C.E: L. Sliger – Country.
24) Box 'O', North Pole, 99705 – G.M: R. Olson. P.D: B. Olson. C.E: B. Larson – Mon-Fri 1600-1000 – Rlg. C&W. **N**-3. Prgr's also in **Russian, Inupiat Eskimo, Athabascan, Indian, German.**
25) Box 299, Sitka 99835 – G.M: Roy Paschal. P.D: S.L. Rhyner. C.E: S. Godwin.
26) Box 278, Cordova 99574 – S.M. & C.E: W.D. Bechtel – Cont. **N**-1, 1745.

AFRTS Stations

Location	kHz	kW	Location	kHz	kW
Galena*	570	0.25	Tok Junction	1400	0.01
Nome	590	0.05	Unalakleet	1400	0.05
Adak*	890	0.25	Tatalina*	1440	0.25
Kodiak*	960	0.25	Point Barrow	1450	0.05
King Salmon*	970	0.25	Bethel	1490	0.05
Ft. Greeley*	980	0.25	Chiniak	1490	0.025
Port Moller	1230	0.01	Clear	1490	0.05
Cp. Romanzov	1240	0.05	Cold Bay	1490	0.05
Shemya*	1240	0.25	Eielson	1490	0.25
Ft. Yukon	1340	0.05	Ind. Mountain I	1490	0.01
Kotzebue	1340	0.05	Ind. Mountain II	1490	0.01
Nikolski	1340	0.05	Tin City	1490	0.05
Cp. Lisburne	1400	0.01	Sparrevohn	1550	0.05
Cp. Sarichef	1400	0.01	Murphy's Dome	1570	0.01

ADDR: Adak: AFRT, Box 19 FPO, Seattle, Wash. 98791: **Ft.Greely:** AFRT, APO, Seattle, Wash. 98733; **Galena:** AFRT, APO, Seattle, Wash. 98723; **King Salmon:** AFRT, 507st AB Squadron, King Salmon Air Force Base 99613; **Kodiak:** AFRT, 5049th Broadc. Squadron (ACC), APO Seattle, 98742; **Shemya:** AFRT, 5073rd Air Base Squadron, Shemya Air Force Station, APO Seattle, Wash. 98736.

BERMUDA (British)

L.T: GMT–4h – **Pr.L:** English – **E.C:** a/c 60, 115/230V (yes).

BERMUDA BROADCASTING CO. LTD. (Comm.)
ADDR: Box 452, Hamilton. **Te:** 5.2828. **Cable:** ZBM Bermuda.

L.P: Man.Dir: W. Staskow. Gen.Mgr: Q. Edness. Dir.Tec: Bryan Lodge. Dir. of Prgrs: E. da Costa.

STATIONS (1kW): ZBM-1 1230kHz – ZBM-2 1340kHz.
HOME SCE in English: On 1230kHz: 1000(Sun 1100)-0400. – On 1340kHz: 24h. **N. Wrp:** 10.55, 11.45, 13.00, 15.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00 – **Portuguese:** 09.45-10.15 on 1235kHz – **FM:** 89.1MHz. 24h.

ANN: "This is ZBM Radio Bermuda" – **V.** by QSL-card. Rp. Recordings accepted.

CAPITAL BROADCASTING CO. LTD.
ADDR: Box 652, Hamilton. **Te:** 2-4444. **Cable:** Capbro.
L.P: Man.Dir: E.A.C. Davis. Dir.Tec: D. Ingham. Operations Mgr: Sturgis Griffin, Jr.

STATION: 960kHz 1kW – **HOME SCE. in English:** 24h. **N:** 1120, 1140, 1220, 1240 etc. until 2230. Sun 1305, 1730, 2230.
ANN: "Musicradio, Station ZFB 960" – **V.** by letter.

CANADA

L.T: See Time Table – **Pr.L:** English, French.
EC: a/c 60, 115/230V (generally) (yes).
Abbreviations: Nfld=Newfoundland. NS=Nova Scotia, PEI=Prince Edward Isl, NB=New Brunswick, Que=-Quebec, Ont=Ontario, Man=Manitoba, Sask=Saskatchewan, Alta=Alberta, BC=British Columbia, NWT=North West Territories, Lab=Labrador, YT=Yukon Territory.

DEPARTMENT OF COMMUNICATIONS, International Telecommunication Branch, Berger Bldg, 100, Metcalfe Str, Ottawa, Ont. K1A 0C8. **Cable:** Comtel.
L.P: Dep. Minister of Communications: M. Yalden.

CANADIAN BROADCASTING CORPORATION
SOCIETE RADIO CANADA (Publicly owned)
ADDR: Head Office: P.O. Box 8478, Ottawa, Ontario K1G 3J5. **Cable:** Broadcast. **Telex:** 053-4260. **Te:** (613)731-3111.
L.P: Pres: A.W. Johnson. Exec.Vice-Pres: P. Des Roches. Vice-Pres: Corporate Affairs & Assistant to the Pres: R.C. Fraser. Vice-Pres. Eng: N.R. Grover. Vice-Pres. Human Resources: Guy Coderre. Vice-Pres. Finance: V.F. Davies. Vice-Pres. Audience & Public Rel: P. Meggs. Vice-Pres. Prgr. Policy & Development: L. Sinclair. General Counsel: J. Alleyn, Q.C. Dir.Int.Rel: Betty Zimmerman.
English Sce's Division: P.O. Box 500, Station "A", Toronto, Ontario M5W 1E6. **Cable:** Broadcast. **Telex:** 02-2763. **Te:** (416)925-3311.
L.P: Vice-Pres. & Gen.Mgr: Don MacPherson. Man.Dir. of Radio: W.T. Armstrong. Dir. of Radio Prgr. Operations: Clive Mason. Superv. Intern. Rel. & Export Sales: W. Willoughby. Chief Eng: J.H. Jones.
French Sce's Division: P.O. Box 6000, Montreal P.Q. H3C3A8. **Cable:** Radcan. **Telex:** 526-64-17. **Te:** (514)285-3211.
L.P: Vice-Pres. & Gen.Mgr: R. David. Dir. of Inf.Prgrs: M. Thibault. Dir. of French Radio: J. Blais. Dir. of French R. Prgr: L. Godin. Dir. of Engineering: G. Gougeon. Supervisor International Relations (radio): C. Mercier.
Engineering Headquarters: 7925 Côte St. Luc Rd, Montreal H4W 1R5. **Cable:** Radcan. **Telex:** 01-26522. **Te:** (514)488-2551.
L.P: Vice-Pres. Eng: N.R. Grover.
Radio Canada International, P.O. Box 6000, Montreal Que. H3C 3A8. **Cable:** INTRAD. **Telex:** 052-67417. **Te:** (514)285-3211.
L.P: Dir: A. Brown.

English Network: °=also on Shortwave.

	Call	kHz	kW		Call	kHz	kW
1)	CBT	540	10	14)	CBZ	970	10
2)	CBK	540	50	15)	CBY	990	10
3)	CFWH	600	1	16)	CBW	990	50
4)	CBN	°640	10	17)	CBR	1010	50
5)	CBU	°690	50	18)	CBA	1070	50
6)	CBL	740	50	19)	CBI	1140	10
7)	CBX	740	50	20)	CFFB	1210	0.25
8)	CBQ	800	10	21)	CHFC	1230	0.25
9)	CBH	860	10	22)	CFGB	1340	1
10)	CFPR	860	10	23)	CFYK	1340	1
11)	CHAK	860	1	24)	CBG	1450	0.25
12)	CBO	910	5	25)	CBE	1550	10
13)	CBM	940	50				

+244 low power relay tr's not mentioned +59 CBC affiliated st's.

1) P.O. Box 218, Grand Falls, Nfld. A2A 217.
2) 1840 McIntyre Str, Regina, Sask. S4P 2R1.
3) 3101-3rd Ave, Whitehorse, YT. Y1A 1E5.
4) P.O. Box 5490, St. John's, Nfld. A1C 5W5.
5) P.O. Box 4600, Vancouver, B.C. 6VB 4A2.
6) P.O. Box 500, Station "A", Toronto, Ont. M5W 1E6.
7) P.O. Box 555, Edmonton, Alta. T5J 2P4.
8) 213 Myles Str. E, Thunder Bay, Ont. P7C 1J5.
9) P.O. Box 3000, Halifax, N.S. 3BJ 3E9.
10) P.O. Box 99, Prince Rupert, B.C. V8J 3P4.
11) P.O. Box 1220, Inuvik, N.W.T. X0E 0T0. S.M: R.E. Rhodes. C.E: D. Boudreau – 24h.
12) P.O. Box 3220, Station "C", Ottawa, Ont. K1Y 1E4.
13) P.O. Box 6000, Montreal, Que. H3C 3A8 (CFDM=-Quebec).
14) P.O. Box 1538, Fredericton, N.B. E3B 5R1. S.M: R. de Boer. C.E: W.R. Pitcher (CBD=Saint John relay).
15) P.O. Box 610, Corner Brook, Nfld. A2H 6G1.
16) P.O. Box 160, Winnipeg, Man. R3C 2H1.
17) P.O. Box 2640, Calgary, Alta. T2P 2M7.
18) P.O. Box 950, Moncton, N.B. E1C 8N8.
19) P.O. Box 700, Sydney, N.S. B1P 6H7.
20) P.O. Box 490, Frobisher Bay, N.W.T. X0A 0H0.
21) P.O. Box 40, Ft. Churchill, Man. R0B 0K0.
22) P.O. Box 736, Happy Valley, Lab. A0P 1E0. S.M: B.M. Dawe. 1000-0515.
23) P.O. Box 160, Yellowknife, N.W.T. X0E 1H0.
24) P.O. Box 369, Gander, Nfld. A1V 1W7.
25) 267 Pelissier Str, Windsor, Ont. N9A 4K5. S.M: B.D. Macpherson. C.E: R.A. Clark. 1000(Sat, Sun 1100)-0610.

Shortwaves:
4) CKZN 6160kHz (0.3kW): 0930-0500 (relay CBN).
Note: Although times are in GMT, calendar days apply to Canada only. **N:** 1000, 1030, 1130, 1200(W), 1300(not Sat), 1500, 1600(W), 1730(Sun), 1800(W), 1900, 2130(Mon-Fri), 2200(not Sat), 2300, 2400, 0100, 0200, 0300, 0400.
5) CZKU 6160kHz (0.4kW): 1400(Sun 1500)-0905(relay CBU). **N:** Mon-Fri 1400, 1430, 1500, 1530, 1600, 1700, 1800, 1900, 2000, 2200, 2300, 0030, 0130, 0200, 0400, 0600, 0700, 0800; Sat 1400, 1500, 1530, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 0000, 0100, 0200, 0400, 0600, 0700, 0800, 0900; Sun 1500, 1600, 1700, 1800, 1900, 2000, 2100, 0000, 0100, 0300, 0500, 0600, 0700, 0800 – **Wrp:** After N. 1500, 0800.
FM: CBM-FM (Montreal 9.1MHz 24.6kW, CBO-FM (Ottawa) 103.3Hz 70kW, CBL-FM (Toronto) 94.1MHz 55.7kW, CBW-FM (Winnipeg) 98.3MHz 354kW, CBU-FM (Vancouver) 105.7MHz 100kW, CBN-FM (St. Johns) 106.9MHz 100kW, CBH-FM (Halifax) 102.7MHz 100kW, CBR-FM (Calgary) 102.1MHz 100kW (all stereo). CBC-FM (Charlottetown) 103.1MHz 93.5kW (relay AM only).

French Network

	Call	kHz	kW		Call	kHz	kW
1)	CBEF	540	2.5	7)	CBSL	1110	10
2)	CHFA	680	5	8)	CBGA	1250	10
3)	CBF	690	50	9)	CBOF	1250	10
4)	CJBC	860	50	10)	CBAF	1300	5
5)	CBV	980	5	11)	CBJ	1580	10
6)	CKSB	1050	10				

+87 low power relay tr's not mentioned +19 CBC affiliated st's.

1) 267, rue Pelissier, Windsor, Ont. N9A 4K5. S.M: B.D. Macpherson. P.D: C. Hurtubise. C.E. R.A. Clark. 1100-0600(Sun 0505).
2) P.O. Box 555, Edmonton, Alta. T5J 2P4. S.M: G. Pariseau. C.E: D. Dutka. W 1300-0800, Sun 1400-0700.
3) P.O. Box 6000, Montreal, Que. H3C 3A8.
4) P.O Box 500, Succursale "A", Toronto, Ont. M5W 1E6.
5) P.O. Box 10400, Ste-Foy, Quebec, Que. G1V 2X2. S.M: M. Metivier. C.E: R. Côté. W 1100-0600, Sun 1200-0500.
6) 607, rue Langevin, St-Boniface, Man. R2H 2W2. S.M: M. Desaulniers. C.E: D.E. Drouin. 1155(Sat, Sun 1250)-0700(Sat, Sun 0605).
7) Rimouski, Que.
8) P.O. Box 218, Matane, Que. G4W 3P7.
9) P.O. Box 3220, Succursale "C", Ottawa, Ont. K1Y 1E4.
10) P.O. Box 950, Moncton, N.B. E1C 8N8.

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11) P.O. Box 790, Chicoutimi, Que. G7H 1R6.
FM: CBF-FM (Montreal) 100.7MHz 100kW, CBV-FM (Quebec City) 95.3MHz 100kW, CJB-FM (Chicoutimi) 100.9MHz 98kW, CBOF-FM (Ottawa) 102.5MHz 70kW, CBUF-FM (Vancouver) 97.7MHz 50kW (relay AM only). CBKF-FM (Regina) 97.7MHz 13.7kW (relay AM only).

RADIO CANADA INTERNATIONAL
(CBC Société Radio-Canada) (Publicly owned)

ADDR: P.O. Box 6000, Montreal H3C 3A8. **Cable:** Intrad. **L.P:** Dir: Alan Brown. Prgr.Dir: Alan Yates. Recorded Prgrs (Spoken Word): Louise Lajoie. Music: Edward Farrant. Distribution: Gerard Poupart. News: Bernard Daudier. Operatons: John Ramsay. Engineer: George Jackson. Publicity: Jean Erlewyn.

STATIONS

All international SW broadcasts from Canada are the responsibility of Radio Canada International (Canadian Broadcasting Corporation). All programs are sent by microwave from Montreal to Sackville, New Brunswick, on Canada's Atlantic coast, whence they are transmitted by 3×50kW and 5×250kW trs (G.C.: 64.19W/45.53N). The relay station in the UK is fed by undersea cable from Montreal.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
5925	6065	9570	9635	11855	11970	17740
5960	9445	9605	9655	11865	15190	17820
6000	9535	9620	9685	11935	15290	
6045	9555	9625	11720	11940	15325	

Areas: I=Europe; II=Africa; III=So. Pacific; IV=Caribbean; V=USA; VI=Latin America; VII=Canadian North; D=Daventry, England; S=Sines, Portugal.
Behind frequencies and between brackets: Antenna direction in degrees clockwise from true North.

Schedule 7/11/76-6/3/77

	Area	Station/kHz/Beam
English		
1400-1500(Sun)	I	D6195(150)/1295
1400-1415	II	15325(68)/17820(60)
1530-1600	I	D7235(68)/9555(64)
1800-1830	II	15325/17820(97)
1830-1900	I	9620/11865(68)
1900-1930	II	15325/17820(97)
		D9685/11830(180)
1930-2000	I	9635/11865(68)
2000-2030	III	15290(277)/15325(232)/17820(240)
2300-0100 (Mon-Fri)	V	5960(232)
0100-0130	IV/V/VI	9535(232)/11940(171)
0200-0230	V/VI	6000(277)/9605(232)
0300-0330	V/VI	5960(232)/6000(277)
		9605(232)/9655(277)
0400-0430	V/VI	5960(232)/9655(277)
French		
1415-1430	II	15325(68)/17820(60)
1500-1600(Sun)	I	D6195(150)/1295
1530-1600	I	15325(68)/17820(60)
		S7245(52)/9565(55)
1800-1830	I	9620/11865(68)
1830-1900	II	15325/17820(97)
1900-1930	I	9635/11865(68)
1930-2000	II	15325/17820(97)
		D9685/11830(180)
2030-2100	III	15290(277)/15325(232)/17820(240)
0100-0130	IV/V/VI	5960(232)/9655(171)
0200-0230	V/VI	5960(232)/9655(277)
0330-0400	V/VI	5960(232)/9655(277)
German		
1730-1800	I	11865/15325(68)
		D5995(110)/7235(79)
1830-1900	I	809/90.2MHz (Berlin)
Czech/Slovak		
1830-1900	I	D5995(110)/7230(79)
Hungarian		
1800-1830	I	D5995(110)/7230(79)
Polish		
1700-1730	I	11865/15325(68)
		D5995(110)/7235(79)
Portuguese		
2300-2330	VI	11940/15190(171)
0000-0030	VI	9535/11940(171)
Russian		
0315-0345	I	D5965(58)/7260(68)
		S6015(55)/7285(52)/9615(55)
1430-1500	I	15325(68)/17820(60)
		D7235(68)/9555(64)
		S7245(52)/9565(55)
1600-1630	I	15325(68)/17820(60)
		D5995(64)/7235(68)
		S7245(52)/9770(55)
1645-1700	I	D5995(64)/7235(68)
Spanish		
2330-2400	VI	11940/15190(171)
0030-0100	VI	9535(171)/9570(232)/11940(171)
0130-0200	VI	5960(232)/6000(277)
		9535(232)/9655(277)
0230-0300	V/VI	5960(232)/6000(277)
		9605(232)/9655(232)
Ukrainian		
1500-1530	I	as Russian 1430
1630-1645	I	as Russian 1645

Armed Forces Service
English and French

1145-1225	I	D9635/11720(133)
1630-1700	I	15325(68)/17820(60)
2200-2245	I	5925/9445(68)*

*) point to point relay to AFRS, Lahr, Germany.

Northern Canada Service
In English/French/Eskimo/Cree

1130-1400	VII	6065/9625(348)
1400-2300	VII	9625/11720(348)
2300-0607	VII	6065/9625(348)

The March/April schedule 1977 will remain unchanged exc. for the following transmissions:

English		
1400-1415	II	15325(68)/17740(60)
1530-1600	I	9555(64)/11935(68)
1830-1900	I	9685/11855(68)
1900-1930	II	15325/17820(97)
		D9625/11830(180)
1930-2000	I	9685/11855(68)
0200-0230	V/VI	6065(277)/9535(232)
0300-0330	V/VI	6045/9535(232)
		6065/9655(277)
0400-0430	V/VI	6045(232)/9655(277)
French		
1415-1430	II	as English 1400
1530-1600	I	15325(68)/17820(60)
		S11970(55)/15420(52)
1800-1830	I	as English 1830
1900-1930	I	
1930-2000	II	as English 1900
0200-0230	V/VI	6045(232)/9655(277)
0330-0400	V/VI	
German		
1730-1800	I	11970/15325(68)
		D9625/11830(180)
Polish		
1700-1730	I	11970/15325(68)
		D5995(110)/7235(79)
Russian		
1430-1500	I	15325(68)/17740(60)
		D9555(64)/11935(68)
		S11970(52)/15420(55)
1600-1630	I	15325(68)/17820(60)
		D9555(64)/11935(68)
		S11970(52)/15420(55)
1645-1700	I	D7235(68)/9555(64)
Spanish		
0130-0200	VI	6000 replaced by 6065
0230-0300	V/VI	6045/9535(232)
		6065/9655(277)

R. Canada News: At the beginning of trs.
ANN: E. "This is Radio Canada International". F: "Ici Radio Canada". G: "Hier spricht Kanada". P: "A Radio Canada transmite para o Brasil". Sp: "Transmite Radio Canada".

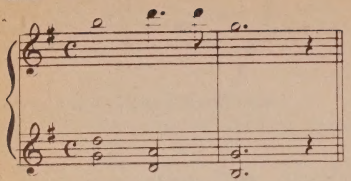
RADIO CANADA INTERNATIONAL

Shortwave programmes

Recorded programmes
for broadcast organizations
on request

P.O. Box 6000
Montreal, Canada
H3C 3A8

INT-SIG:



V. QSL-cards are provided only with the mailing of the RCI spring schedule, and may be returned for verification – Records (spoken-word or music), topical discs or tapes can be provided on request to broadcast organizations – **PUB:** Radio Canada International program schedule, published twice a year is sent free upon request.

BBC SACKVILLE RELAY

A maximum of two trs are made available to the BBC at any one time, with powers of 50 to 250kW depending on availability.

kHz	kHz	kHz	kHz	kHz
5990	6175	9510	9580	15365

Full details included in the BBC schedules under Great Britain.

DEUTSCHE WELLE SACKVILLE RELAY

(trs operated by CBC)
6085/9605kHz: 0330-0550 relay German Sce.

PRIVATELY OWNED STATIONS

Canadian Association of Radio and Television Broadcasters: Head Office, 85 Sparks Str. Rm 909, Ottawa, Ont. K1P 552 – Dir. Research and Records Management: B. O'Grady.

Medium Waves: Stations less than 100W not mentioned. *=also Short Wave. °=affiliated to the CBC R.Network. These st's usually rebroadcast appr. 25h weekly of prgrs from the CBC. f=mainly French prgrs, e=mainly English prgrs, b=bilingual, m=multilingual.

	Call	kHz	kW
1)	CKPG	°550	10e
400)	CHNO	550	10/2.5e
500)	CHLN	°550	10/5f
600)	CFNB	550	50e
2)	CHTK	560	1/0.25e
3)	CKNL	560	1e
401)	CJKL	°560	5e
402)	CFOS	°560	1e
501)	CKCN	°560	10/5b
901a)	CHCM	560	1/05e
903e)		560	1/0.25e
4a)	CKWL	570	1e
5)	CKEK	570	10/1e
212)	CKSW	570	10e
601)	CJEM	°570	5/1b
900)	CFCB	570	1e
6)	CKXR	580	10/1e
100)	CKUA	580	10e
301)	CKY	580	50e
403)	CFRA	580	50/10e
404)	CKPR	580	5/1e
405)	CKAP	580	1e
406)	CKWW	580	0.5e
502)	CHLC	580	5/2.5f
800)	CJFX	°580	10e
3a)	CFNL	590	0.25e
7)	CFTK	°590	1e
302)	CFAR	°590	10/1e
407)	CKEY	590	10e
503)	CKRS	590	10/5f
608a)	CJCW	590	0.5/0.25e
901)	VOCM	590	10e
8)	CJOR	600	10e
95)	CFCT	°600	1e
200)	CFQC	600	5e
408)	CFCH	°600	1/5e
504)	CFCF	*600	5e
801)	CKCL	°600	1e
9)	CHNL	610	10/5e
10)	CJAT	°610	10/1e
90)	CKRW	610	1e
101)	CKYL	610	10/5e
303)	CHTM	°610	1e
409)	CKTB	610	10/5e
506)	CKML	°610	
505)	CHNC	°610	10/5b
903a)	CJOX	610	10e
11)	CJCI	620	10e
201)	CKCK	620	5e
410)	CFCL	620	10/5f
901b)	CKCM	620	10e
12)	CKOV	°630	5/1e
102)	CHED	630	10e
304)	CKRC	630	10e
411)	CFCO	630	10/1e
412)	CJET	°630	10e
413)	CKAR	°630	1e
507)	CHLT	°630	10/5f
508)	CJLA	630	0.5/1f
700)	CFCY	°630	10e
903dr)	CJNW	670	10e
305)	CJOB	680	10/2.5e
414)	CKGB	°680	10e
415)	CFTR	680	25e
903c)	CJCN	680	10e
416)	CJRN	710	5/2.5e
417)	CHYR	710	10m
501a)	CIPC	710	1b
509)	CKVM	°710	10/1f
901r)	CKVO	710	10e
13)	CKLG	730	10e
306)	CKDM	730	10/5e
417)	CHYR-7	730	0.25m
418)	CJNR	°730	1e
510)	CKAC	730	50f
901br)	CKGA	730	1e
103)	CFCW	790	50e
419)	CKSO	°790	10/5e
420)	CHIC	790	1/0.5e
602)	CFAN	°790	1e
802)	CFDR	790	5e
900a)	CFNW	790	1e
14)	CKOK	°800	10/0.5e
15)	CJJC	800	10e
202)	CHAB	800	10e
421)	CKLW	800	50e
422)	CFOB	°800	1/0.5e
423)	CJBQ	°800	10e
511)	CHRC	800	50f
512)	CJAD	800	50/10e
902)	VOWR	800	1e
104)	CHQR	810	50e
307)	CKJS	810	10m
603)	CJVA	810	10f
27a)	CFVR	850	10e
105)	CKRD	850	10/1e
513)	CKVL	850	50/10f
16)	CJVI	°900	10e
203)	CKBI	900	10e
400)	CFBR	°900	10/1f
424)	CHML	900	5e
425)	CKDR	900	1/0.25e
514)	CJBR	°900	10f
515)	CJEN	900	1b
516)	CKTS	°900	10e
540a)	CKVD	°900	10/2.5f
803)	CKDH	900	1e
17)	CFJC	°900	10/1e
106)	CJDV	910	5e
426)	CKLY	°910	10e
517)	CHRL	°910	10/2.5f
900b)	CFSX	910	0.5e
4)	CKCQ	920	10e
308)	CFRY	920	10e
427)	CKCY	920	10/5e
428)	CKNX	920	10/1e
546a)		920	1f
604)	CJCJ	°920	10/1e
804)	CJCH	920	10/5e
107)	CJCA	930	10/5e
605)	CFBC	930	10/5e
903)	CJON	930	25e
18)	CJIB	°940	10e
204)	CJGX	940	10e
309)	CFAM	950	10e
429)	CKBB	950	10/2.5e
606)	CKNB	°950	10/1b
805)	CHER	950	10e
108)	CFAC	960	50e
430)	CKWS	°960	10/5e
806)	CHNS	*960	10e
109)	CJYR	970	10e
518)	CKCH	970	5f
19)	CKNW	980	50e
205)	CKRM	980	10/5e
431)	CFPL	°980	10/5e
432)	CHEX	°980	10/5e
519)	CKGM	980	10e
807)	CKBW	°1000	10e
433)	CFRB	*1010	50e
110)	CFGP	°1050	10e
206)	CJNB	1050	10e
434)	CHUM	1050	50e
435)	CJIC	°1050	10/2.5e
111)	CFCN	*1060	50e
520)	CJRP	1060	50/10f
20)	CFAX	1070	10e
436)	CHOK	°1070	10e
112)	CKSA	1080	10e
113)	CHEC	1090	5e
554)	CHRS	1090	10f
438)	CKKW	1090	10e
114)	CHQT	1110	10e
441a)		1110	
448)	CKJD	1110	10/1e
21)	CKWX	*1130	50e
115)	CKXL	1140	10e
521)	CJTR	1140	10f
22)	CKIQ	1150	10/1e
310)	CKX	°1150	10e
439)	CJRC	1150	50/5f
440)	CKOC	1150	10e
607)	CHSJ	1150	10/5e
116)	CKGY	1170	10/1e
441)	CFML	1170	10f
207)	CFSL	1190	10/5e
449a)	CJMR	1190	10e
701)	CHTN	1190	10e
23)	CKDA	1220	50e
117)	CJOC	°1220	10/5e
309a)	CJRB	1220	10e
442)	CHSC	1220	1/0.5e
443)	CJRL	°1220	1e
444)	CJSS	1220	1e
522)	CKSM	1220	10/2.5f
608)	CKCW	1220	10e
7a)	CKTK	°1230	1/0.25e
9a)	CJNL	1230	1/0.25e
24)	CFBV	1230	1/0.25e
25)	CKQR	1230	1/0.25e
118)	CJOK	1230	1/0.5e
401a)	CJTT	°1230	1/0.25e
410a)	CFLK	°1230	0.25f
445)	CFPA	1230	1/0.25e
446)	CKMP	1230	1/0.25e
523)	CHVD	°1230	10/0.25f
524)	CKLD	°1230	1/0.25f
525)	CJSA	1230	1/0.25f
900c)	CFGN	1230	0.25e
900d)	CFLN	1230	1/0.25e
905)	VOAR	1230	0.1e
1a)	CKMK	°1240	1/0.25e
4b)	CKBX	1240	0.25e
5a)	CFEK	1240	1/0.5e
14a)	CKOO	°1240	1/0.25e
26)	CJAV	°1240	1/0.25e
27b)	CKGO	1240	1/0.25e
302a)	CJAR	°1240	1/0.5e
423a)	CJNH	°1240	1/0.25e
435a)	CJWA	°1240	1/0.25e
447)	CJCS	°1240	0.5/0.25e
526)	CFLM	°1240	1/0.25e
527)	CJMD	1240	1/0.25f
528)	CFLS	1240	0.25f
529)	CKBS	1240	0.25f
540b)	CKLS	°1240	1/0.25f
541a)	CJAF	°1240	1/0.25f
702)	CJRW	1240	0.25e
901br)	CKIM	1240	1/0.5e
208)	CKOM	1250	10e
309r)	CHSM	1250	10e
449)	CHWO	1250	10/5e
119)	CFRN	1260	50e
27)	CHWK	°1270	10e
120)	CHAT	°1270	10e
530)	CFGT	1270	10/5f
808)	CJCB	*1270	10e
28)	CHQB	°1280	1e
207a)	CJSL	1280	1e
450)	CHAM	1280	10e
531)	CJMS	1280	50f
532)	CKCV	1280	10/5f
451)	CJBK	1290	10e
533)	CHRM	1290	10f
209)	CJME	1300	1e
118a)	CIOK	1310	10e
452)	CFGM	1310	50e
453)	CKOY	1310	50e
534)	CHGB	°1310	10f
29)	CHQM	1320	50e
454)	CFTJ	1320	1e
535)	CJSO	1320	10/5f
809)	CKEC	1320	5e
210)	CKKR	1330	10e
6a)	CKCR	1340	1/0.25e
11a)	CIVH	1340	1/0.25e
14b)	CKGF	°1340	1/0.25e
31a)	CFKC	°1340	0.25e

	Call	kHz	kW
106a)	CKBR	1340	1/0.25e
410b)	CFLH	°1340	1/0.25e
418a)	CKAR-1	1340	0.25e
418a)	CKNR	°1340	1/0.25e
455)	CKOX	1340	1/0.25e
506a)	CKMG	1340	1/0.25f
509r)	CKVT	°1340	0.25f
524a)	CJAN	1340	1/0.25f
527r)	CFED	1340	0.25f
540c)	CHAD	°1340	1/0.25f
810)	CJLS	°1340	5/1e
900e)	CFLW	1340	0.25e
30)	CJDC	1350	1e
456)	CKLB	1350	10/5e
457)	CHOV	°1350	1e
534a)	CHAL	°1350	1f
537)	CJLM	1350	10/1f
812a)	CKAD	°1350	1e
903d)	CJCR	1350	1e
538)	CJVL	1360	10/5f
609)	CKBC	°1360	10e
37)	CHPQ	1370	1e
118b)	CFOK	1370	10e
211)	CJWW	1370	10e
539)	CFLV	1370	10/5f
458)	CKLC	1380	10e
459)	CKPC	1380	10e
524b)	CFDA	1380	1f
31)	CKKC	°1390	1e
460)	CHOO	1390	10e
6b)	CKGR	1400	1/0.25e
9b)	CINL	1400	1/0.25e
9c)	CHNL-1	1400	1/0.25e
24a)	CFLD	1400	0.25e
429a)	CKCB	1400	0.25e
461)	CKOB	1400	0.25e
506b)	CKSJ	1400	1/0.25f
524c)	CKFL	°1400	1/0.25f
540)	CKRN	°1400	1/0.24b
541)	CJFP	°1400	10/5f
542)	CKRV	1400	0.25/0.1f
32)	CFUN	1410	50e
462)	CKSL	1410	10e
543)	CFMB	1410	10m
811)	CIGO	1410	10
213)	CJVR	1420	10e
463)	CKPT	1420	5e
524d)	CKTL	1420	1/0.5f
544)	CJMT	1420	10/2.5f
812b)	CKDY	°1420	1e
464)	CKFH	1430	50e
33)	CFCP	°1440	1e
121)	CJOI	1440	10c
465)	CFGO	1440	50e
14c)	CKSP	1450	1/0.25e
109r)	CKYR	1450	0.1e
466)	CFJR	°1450	1/0.25e
467)	CHUC	1450	1e
514r)	CJBM	°1450	1/0.25f
541b)	CHRT	°1450	0.25f
545)	CHEF	1450	10/5f
812c)	CFAB	°1450	0.25e
468)	CJOY	1460	10/5e
546)	CKRB	°1460	10/5f
34)	CJVB	1470	10m
811)	CFRW	1470	10e
469)	CHOW	1470	1/0.5e
547)	CFOX	1470	50e
548)	CKBG	1470	1f
549)	CHRD	1480	10f
1b)	—	1490	1/0.25e
33a)	CFWB	°1490	1/0.25e
117a)	CJPR	°1490	1/0.25e
212a)	CJSN	1490	1/0.25e
470)	CFRC	1490	0.1e
471)	CHYM	1490	10/1e
506c)	CKLR	1490	1/0.25f
550)	CJMC	1490	1/0.25f
551)	CKBM	1490	1/0.25f
601a)	CKMV	1490	1/0.25b
812)	CKEN	°1490	1/0.5e
35)	CKAY	1500	5/1e
472)	CKOT	1510	10e
552)	CJRS	1510	10f
473)	CHIN	1540	50m
36)	CHUB	1570	10e
113a)	CKTA	1570	5e
474)	CHLO	1570	10e
475)	CFOR	1570	10/1e
553)	CKLM	1570	50f
476)	CHNR	1600	10e

Stations under construction: 930kHz Espanola, Ont. 10kW.

Short Waves

	Call	kHz	kW	Relays
504)	CFCX	6005	0.5	CFCF, Montreal: 24h
111)	CFVP	6030	0.1	CFCN, Calgary: 24h
433)	CFRX	6070	1	CFRB, Toronto: 24h
21)	CKFX	6080	0.01	CKWX, Vancouver
806)	CHNX	6130	0.5	CHN

Addresses and other information:

Abbreviations: See under U.S.A. comm. st's.

Networks: During recent years many regional networks have been formed. The st's of a network often transmit a common prgr. during part of the broadcast day. The main st has been given a pure number, under which details common to all st's or pertaining to the main st only are found, while the other st's have been given the same number with an individual capital letter added, under which details pertaining only to this st are found. R. means a pure relay st.

Verifications: Most stations verify correct reception reports, especially for exceptional distances. The details of the verification policies often change and thus are omitted here.

British Columbia

1) 3220 6th Ave, Prince George, B.C V2L 3M8 – G.M: G.M. Leighton. P.D: H. McLennan. C.E: D. Alendal. 24h (exc. Mon morning) on 550/1240kHz.

1A) Mackenzie, B.C.

2) 300 2nd Ave W, Prince Rupert, B.C V8J 1G6 – S.M: Roy B. Last. P.D: K. Armstrong. C.E: P. Crowder. 24h.

3) Box 6310, Fort St. John, B.C V1J 4H8 – Mgr: G. Daniel. P.D: P. Hawkes. C.E: B. Guy. 24h on 560/590kHz. **N**-1.

3A) Box 880, Fort Nelson, B.C V0C 1R0 – Mgr: G. Guy. 24h.

4) 160 Front Str, Quesnel, B.C V2J 2K1 – G.M: J. Boates. P.D: G. McCall. C.E: S.W. Davis. 24h, exc. Mon morning on 570/920/1240kHz.

4A) 98A 2nd Ave N, Williams Lake, B.C.

4B) Box 939, 100 Mile House, B.C V0K 2E0 – S.M: Ken Wilson.

5) 28 8th Ave S, Cranbrook, B.C V1C 2K3 – G.M: H. Lawless. C.E: Ray Preson – 24h on 570/1240kHz. After local midnight same prgr as 10.

5A) Box 885, Fernie, B.C V0B 1M0 – Mgr: R. Stafford-Mayer. Own prgr's W 1400-1735, 1900-2005, 2330-0130.

6) Box 69, Salmon Arm, B.C V0E 2T0 – Mgr: R.J. Hall. P.D: B. Richards. C.E: S.W. Davis – 24h on 580/1340/1400kHz. **N**-2.

6A) Box 1420, Revelstoke, B.C. Own prgr's Mon-Fri 1400-2000, Sat 1400-1700.

6B) Golden, B.C. Own prgr's: As 6A).

7) 4625 Lazelle Ave, Terrace, B.C V8G 1S4 – G.M: R.A. Parfitt. P.D: T. Hockaday. C.E: P. Crowder – 24h on 590/1230kHz.

7A) Rm 315, Federal Bldg, Kitimat V8C 1T6 – Mgr: J.B. Cooper.

8) 840 Howe Str, Vancouver 1, B.C V6Z 1N6 – G.M: Don Wall. P.D: N. Soper. C.E: A. Erdman. 24h.

9) Box 610, Kamloops, B.C V2C 1Y6 – G.M: J. Skelley. P.D: D. McAllister. C.E: A. Holmberg. 24h (off Mon 0800-1400) on 610/1230/1400kHz. **N**-3.

9A) Box 1630, Merritt, B.C V0K 2B0 – Mgr: Ron Clark. Own prgr's Mon-Fri 1500-2100.

9B) Box 1400, Princeton, B.C V0X 1W0 – Mgr: Ron Moropito. Own prgr's Mon-Fri 1500-1800.

9C) Clearwater, B.C.

10) 1300 Cedar Ave, Trail, B.C V1R 4C2 – Mgr: J.P. Kobluk. P.D: D.J. Glover. C.E: J. Renzie. 24h.

11) Box 758, Prince George, B.C V2L 4T4 – Mgr: R.A. East. P.D: D.L. Prentice. C.E: D. Gillard. 24h on 620/1340kHz. **N**-1.

11A) Box 1370, Vanderhoof, B.C V0J 3A0 – P.D: B. Oppdahl. Own prgr's Mon-Fri 1700-2015.

12) P.O. Box 100, Kelowna, B.C V1Y 7N3 – Mgr: D.S. Dunn. C.E: M. Dochtermann. 24h.

13) 1006 Richards Str, Vancouver, B.C V6B 1S8 – G.M: D.M.E. Hamilton. P.D: F. Callaghan. C.E: P.K. Macintosh. 24h. **F.Pl:** 50kW.

14) 33 Carmi Ave, Penticton, B.C V2A 3G4 – G.M: G.W. Pash. P.D: G. Sherwood. C.E: B.A. O'Neill. 24h (silent Mon 0818-1355) on 800/1240/1340/1450kHz. **N**-1.

14A) Box 539, Osoyoos, B.C V0N 1V0 – S.M: Roy Francis. Own prgr's 1400-2100.

14B) Box 1570, Grand Forks, B.C – S.M: D.M. Shainline. Own prgr's 1500-2230.

14C) Box 1170, Summerland, B.C V0H 1Z0 – Mgr: D.R. Mitten. Own prgr's 1400-2000.

15) 20590 Fraser Hwy, Langley, B.C V3A 4G2 – G.M: J. Chesney. P.D: M. McMan. C.E: D. Glasstetter. 24h. **N**-3.

16) Box 900, Victoria, B.C – G.M: J.E. Ansell. P.D: R. Robinson. C.E: C. Smedley. 24h. **N**-3.

17) 460 Pemberton Terrace, Kamloops, B.C V2C 1T5 – G.M: D.S. Clark. P.D: B. Meisner. C.E: V. Gollmar. 24h. **N**-2.

18) 3315 Barnard Ave, Vernon, B.C V1T 2E1 – Mgr: A.G. Seabrook. P.D: R. Stanley. C.E: J. Mitschke. 24h.

19) 815 McBride Plaza, New Westminster, B.C V3L 2C1 – G.M: H.L. Davis. P.D: J. Stewart. C.E: J. Gordon. 24h. **N**-1.

20) 620 View Str, Victoria, B.C V8W 1J6 – G.M: Mel Cooper. Prod. Mgr: B. Bowman. C.E: Bob Calder. 24h. **N**-3.

21) 1275 Burrard Str, Vancouver, B.C V6Z 1Z8 – Man.Dir: J.D. Elton. P.D: R.T. Bye. C.E: S. Davis. 24h.

22) 2419 Hwy. 97N, Kelowna, B.C V1X 4J2 – G.M: W. Gray. P.D: R.J. Harrison. C.E: G.J. Young. 24h. **N**-1.

23) Box 967, Victoria, B.C V8W 2S5 – G.M: D.M. Armstrong. P.D: W. Cownden. C.E: F. Cole. 24h. **N**-1.

24) Box 335, Smithers, B.C V0J 2N0 – Mgr: N.C. Wessen. P.D: S. Robinson. C.E: S. Davis. 1400(Sun 1530)-0730(Sat 0800) on 1230/1400kHz.

24A) Box 600, Burns Lake, B.C V0J 1E0 – Mgr: R. Lynch.

25) 601a Columbia Ave, Castlegar, B.C V1N 2C9 – Mgr: G.A. Brady. P.D: F. Jack. C.E: J. Renzie. 24h. **N**-1.

26) 205 3rd Ave So, Port Alberni, B.C V9Y 7N4 – G.M: M.

Inwards. C.E: M. Semkiw. 1330(Sat 1400, Sun 1500)-0800. **N**-3.
27) Box 386, Chilliwack, B.C V2B 6J7 – Mgr: W.J. Coombes. P.D: L. Hagen. C.E: A. Schmidt. 24h (silent Mon 0900-1400) on 1270/1240/1490kHz. **N**-3. **German:** Sun 1515-1600.
27A) 2722 Allwood Str, Abbotsford, B.C V2T 3R8 – Mgr: R. Singleton. P.D: B. Williams. Own prgr's 1400-0800.
27B) Box 1600 Hope, B.C V0X 1L0 – Mgr: P.D. Slack. P.D: W. Elhard. Own prgr's Mon-Sat 1500-2015, Mon-Fri 2300-0130.
28) 7074 Westminster Str, Powell River, B.C V8A 2C3 – S.M: J.S.E. Thompson. C.E: R.E. Harlow – 1400-0800. **N**-3.
29) 1134 Burrard Str, Vancouver 1, B.C V62 1Y7 – Man.Dir: J.E. Stark. P.D: M.L. Foisy. C.E: S.W. Davis – 24h. **N**-2.
30) 901-102nd Ave, Dawson Creek, B.C V1G 2B6 – G.M: M.L. Michaud. P.D: M.A. Lewis. C.E: E. Sorenson. 24h. **N**-2.
31) Box 250, Nelson, B.C V1L 5P9 – Mgr: D.H. Glover. P.D: J.G. Cox. C.E: J. Renzie. 24h on 1340/1390kHz. **N**-2.
31A) Box 310, Creston, B.C V0B 1G0 – S.M: S.E. Thompson.
32) 1900 West 4th Ave, Vancouver 9, B.C V6J 1M6 – G.M: M.R. Carabine. Senior Eng: D. Rogers. 24h.
33) 1595 Cliffe Ave, Courtenay, B.C V9N 2K6 – Mgr: E. Kidder. C.E: F. Grant. 24h (exc. Mon 0900-1400) on 1440/1490kHz.
33A) 922 Dubeau Str, Campbell River, B.C V9W 2L6 – Mgr: Bob McInnes.
34) Box 9200, Vancouver, B.C V6B 3A7 – Mgr: Jan van Bruchem. P.D: (English) E.G.R. Hartman. C.E: M. Fawcette. Mon 1330-Mon 0800 in E and 25 other languages. **N**-1 and within foreign language prgr's.
35) 160 Jubilee Str, Duncan, B.C V9L 1W7 – Mgr: Mrs. D. Mykyte. C.E: E. Mykyte. 1330(Sat, Sun 1400)-0800. **N**-1.
36) Box 1570, Nanaimo, B.C V9R 4Y7 – Mgr: G. Lawlor. P.D: Ted Kelly. C.E: M. Pickford – 24h. **N**-3.
37) Box 1370, Parksville, B.C V0R 2S0.

Yukon Territory

90) 203-4103 4th Ave, Whitehorse, Y.T Y1A 1H6 – Mgr: L.J. Farewell. P.D: R. Gilbey. C.E: B. Mitchell – 24h (silent Sun 0900-1500).

North West Territories

95) Box 1220, Tuktoyatuk, N.W.T X0E 1C0 – Mgr: R. Le Meur. Eskimo Educational.

Alberta

100) University of Alberta, 10526 Jasper Ave, Edmonton, Alta T5J 1Z7 – Mgr: E.K. Kilpatrick. C.E: H.F. Kroetsch. 1300-0900(Sun 0800). **N:** 1450, 1900, 2130, 0020, 0130, 0500.
101) Box 1150, Peace River, Alta T0H 2X0 – G.M: G.W. Cambridge. P.D: B. Zens. C.E: L. Klement. 1300-0700.
102) 10006-107 Str, Edmonton, Alta T5J 1J2 – G.M: J. Forbes. P.D: K. James. C.E: C. Nichol. 24h.
103) 4872-50 Str, Camrose, Alta T4V 1P8 – G.M: W.H. Holte. P.D: R. Sims. C.E: L. Olson. 24h. **N**-1.
104) 830-9th Str SW, Calgary, Alta T2P 1L7 – G.M: T. Soskin. P.D: D. Anderson. C.E: M.B. Hoyme. 24h. **N**-1.
105) Box 5555, Red Deer, Alta T4N 4B7 – Mgr: H.L. Flock. P.D: D. Fix. C.E: R. Broener. 24h.
106) Box 1480, Drumheller, Alta T0J 0Y0 – Mgr: J. Fisher. P.D: G. Walters, C.E: J. Bruins. 24h on 910/1340kHz. **N**-1.
106A) Box 180, Brooks, Alta T0J 0J0. Own prgr's 8 1/2h daily.
107) 10230-108 Str, Edmonton, Alta T5J 2X3 – G.M: J.T. Strain. P.D: B. Lang. C.E: G. Skutle. 24h. **N**-3.
108) 1301-17th Ave SW, Calgary, Alta T2T 0C5 – G.M: J. McColl. P.D: J. Kunkel. C.E: A. Malowanchuk. 24h. **N**-3.
109) Box 1450, Edson, Alta T0E 0P0 – G.M: C. Benson. P.D: Wax Williams. 1300-0800 on 870/1450kHz. **N**-1. (CKYR= Jasper.)
110) 10008-103rd Ave, Grande Praire, Alta T8V 1B8 – Mgr: W. Everitt. P.D: J. Soars. C.E: E. Reed. 24h. **N**-1.
111) Broadc. House, St. "E", Calgary, Alta T3C 3L9 – G.M: N. Haines. P.D: G. Kelly. C.E: Ron Nordquist. 24h. **N**-3.
112) 5026-50th Str, Lloydminster, Alta S9V 0Z1 – G.M: A.F. Shortell. P.D: E. Ford. C.E: T. Stam. 24h.
113) Box 1090, Lethbridge, Alta T1J 4A3 – G.M: H.W. Brown. P.D: W. Edwards. C.E: M. Porter. 24h on 1090/1570kHz. **N**-3.
113A) Box 2199, Taber, Alta T0K 2G0 – Mgr: B.E. Seely. C.E: R. Verhulst. Prgr in Blackfoot Indian Sun 1500.
114) 10154-103rd Str, Edmonton, Alta T5J 0X8 – Mgr: L.R. Roskin. P.D: D. Charles. C.E: F. Makepeace. 24h. **N**-1. **F.Pl:** 50kW.
115) Box 1140, Calgary, Alta T2P 2M7 – G.M: T.E. McBride. P.D: G. Haraldson. C.E: B. Martin. 24h. **N:** at :20, :40.
116) Box 399, Red Deer, Alta T4N 5E9 – Mgr: R.D. Stephen. P.D: H. Davidson. C.E: Al Crandlemire. 24h. **N**-1.
117) Box 820, Lethbridge, Alta S4H 2K2 – Mgr: G.A. Brown. P.D: Bob Lane. C.E: B. MacDonald. 24h on 1220/1490kHz.
117A) Box 780, Blairmore, Alta T0K 0E0 – Mgr: D. Ferguson.
118) Box 3000, Ft. McMurray. Alta T0A 1K0 – Mgr: S. Morton. C.E: B. Leschasin. 1300(Sun 1400)-0700 on 1230/1310/1370kHz. **N**-1.
118A) Box 910, St. Paul, Alta T0A 3A0 – S.M. & C.E: K.P. Sebryk – 24h.
118B) Box 1800, Westlock, Alta T0G 2L0 – S.M: S. Morton. C.E: P. Calvert – 24h. **N**-1.
119) Box 5030, Stn. E, Edmonton, Alta T5P 4C2 – G.M: Dr. G.R.A. Rice. Mgr: T. Coumant. P.D: J. Edwards. C.E: T.E. Wadson. 24h (silent Mon 0905-1330). **N**-3.
120) Box 1270, Medicine Hat, Alta – G.M: Orv Kope. P.D: Pat O'Connor. C.E: S. Gaffney. 1250(Sun 1400)-0800(Sun 0700).
121) Box 1000, Wetaskiwin, Alta – G.M: Myra Mack. P.D: G. Millar. C.E: D. Brost. 1300-0807.

Saskatchewan

200) 212-216 First Ave No, Saskatoon, Sask S7K 1X1 – G.M: D.J. Fisher. P.D: D. Carr. C.E: A. Koenderink. 24h.
201) Box 6200, Regina, Sask S4P 3H7 – Mgr: R.A. Lamborn. P.D: D. Alexander. C.E: H.C. Dean. 24h. **N**-3.
202) 116 Main Str N, Mose Jaw, Sask S6H 3J7 – G.M: V.L. Traill. P.D: D. Aylesworth. C.E: M. Pickford. 24h. **N:** at :20, :50.
203) 10th Str W, Prince Albert, Sask S6V 3A5 – G.M: F.F. Rawlinson. C.E: T. VanNes. W 1200-0700, Sun 1300-0615.
204) Box 430, Yorkton, Sask – G.M: E.A. Laurence. C.E: H. Kerr. 24h (silent Mon 0600-1100). Prgr's also in Ukrainian and Canadian Indian. **N**-1.
205) Box 9800, Regina, Sask S4P 3J4 – G.M: G.G. Gallagher. P.D: F. King. C.E: Wm. McDoughall. 24h. **N**-1.
206) Box 1460, North Battleford, Sask S9A 2Z5 – Mgr: H.G. Dekker. P.D: E. Elliot. C.E: A. Ruddell. W 1300-0805, Sun 1330-0605.
207) Box 340, Weyburn, Sask S4H 2K2 – G.M: J.T. Laing. P.D: G. Thonn. C.E: M. Gillespie. 1200-0600 on 1190/1280kHz. **N**-1.
207A) Box 365, Estevan, Sask S4A 2A4 – Mgr: D.M. Shainline. C.E: Bob Hunter. Own prgr's: W 1300-2300(Sat 0700).
208) Sub Box 37, Saskatoon, Sask S7H 0W3 – G.M: R.A. Hosie. S.M: W.H. Stovin. C.E: K. Fisher. W 1130-0700(Sat 0800), Sun 1300-0600. **N**-1.
209) Box 1300, Regina, Sask S4P 3B9 – G.M: G.S. Rawlinson. P.D: H.H. Kirch. C.E: D.M. Senft. 24h. **N:** at :20, :40.
210) Box 490, Rosetown, Sask S0L 2V0 – G.M: S. Solberg. P.D: B. Douglas. C.E: J. Guppy. 1300-0700.
211) 1426 Alexander Str, Saskatoon, Sask – 24h.
212) Box 370, Swift Current, Sask – P.D: Len Onns. C.E: M. Klippenstein – 1300-0700 on 570/1490kHz. **N**-3.
212A) Box 1176, Shaunavon, Sask S0N 2M0 – Mgr: M. Christenson. Own prgr's: W 1335-1830.
213) Box 1420, Melfort, Sask S0E 1A0 – Man.Dir: M.J. Chase. P.D: L. Enns. C.E: Ed Burynuik. 1200(Sun 1300)-0601. **N:** at :55 and 1425, 1825.

Manitoba

301) Polo Park, 1440 Rapelje Ave, Winnipeg, Man R3G 0L7 – G.M: A.E. Diehl. P.D: Jim Jackson. C.E: G. Kyle – 24h. **N:** at :20, :40.
302) Box 430, Flin Flon, Man R8A 1N3 – G.M: D. O'Brien. P.D: J. Poulin. C.E: B. McDougall. 1200-0713 on 590/1240kHz.
302A) Box 2683, The Pas, Man.
303) Box 760, Thompson, Man R8N 0V6 – G.M: E.R. Robertson. P.D: A. Shepard. C.E: G. Frisko. 24h.
304) Box 9700, Winnipeg, Man R3C 3E5 – G.M: G.L.

Miles. P.D: R. Washington. C.E : R. Patterson. 24h.
305) 930 Portage Ave, Winnipeg, Man R3G 0P8 – G.M: R.M. MacLennan. P.D: J. Cochrane. C.E: N.J. East. 24h.
306) Box 1510, Dauphin, Man R7N 2V5 – G.M: J.H. Dunlop. P.D: C. Worth. C.E: P. Nykolaishen. 24h.
307) 191 Lombard Ave, Winnipeg, Man R3B 0X1 – G.M: C.G. Stanczykovski. P.D: B. Mackenzie. C.E: N. East. 24h. Presently using 11 languages with more to be added.
308) 1500 Sask. Ave W, Portage la Prairie, Man R1N 0N6 – G.M. & C.E: R.D. Hughes. 1200(Sun 1300)-0600(Sat 0700).
309) R. Southern Manitoba, Box 950, Altona, Man R0G 0B0 – G.M: E. Hildebrand. C.E: J.J. Pauls. 24h in English (German, Polish, Dutch occasionally) on 950/1220/1250kHz. **N**-1 and at 1230, 1330, 1430, 1830, 2330, 0030. (CHSM=Steinbach, CJRB=Boissevain).
309A) Boissevain, Man.
310) 2940 Victoria Ave, Brandon, Man – Man.Dir: R.S. Craig. P.D: F. Bird. C.E: L. Dubois. 24h.
311) Box 1022, Winnipeg, Man R3C 2W9 – G.M: E.E. Yuzak. P.D: D. Roman. C.E: B. Edgar. 24h. **N**-3.

Ontario

400) Box 700, Sudbury, Ont P3E 4R9 – G.M: F.B. Ricard. Mgr: P. Scott. C.E: H. Albert. S.M. (CFBR): R. Riel. (CHNO): C. Babcock. CFBR 1100-0600 on 900kHz, CHNO 24h on 550kHz.
401) Box 430, Kirkland Lake, Ont – G.M: Bob Ancell. P.D: L. Elcombe. C.E: C. Tryon – W 1100-0700, Sun 1200-0500 on 560/1230kHz.
401A) Box 1058, New Liskeard, Ont P0J 1P0 – Mgr: W. Thiffault.
402) 270 Ninth Str. East, Owen Sound, Ont N4K 5P5 – Mgr: Wm. N. Hawkins. P.D: R. Kentner. C.E: J. Hutchings – 1045(Sun 1230)-0612. **F.PI:** 2.5/1kW. Sattellite in Port Elgin on 1490kHz (1/0.25kW).
403) 150 Isabella Str, Ottawa, Ont K1S 5A3 – G.M: T. Kielty. P.D: P. Ski. C.E: G. Roach. 24h.
404) 87 N Hill Str, Thunder Bay, Ont P7A 5V6 – Mgr: G.D. Jeffrey. P.D: R. Dec. C.E: G. Beutow. 1100-0700(Sun 0505). **N**-2.
405) 24 Byng Ave, Kapuskasing, Ont P5N 1X5 – G.M: B. Squirrell. P.D: B. Mathesen. C.E: Y. Aube. 24h. **F.PI:** 10/1kW.
406) 1150 Quellette Ave, Windsor, Ont N9A 1E2 – Mgr: L.W. Thoman. P.D: J. Henderson. C.E: W. Dowhan. 24h. **N**-3.
407) 1 Yonge Str, Toronto, Ont M5E 1G1 – G.M: S.C. Brandy. P.D: G. Kirby. C.E: W.R. Onn. 24h. **N**-1.
408) Box 8000, North Bay, Ont P1B 8K8 – S.M: G.V. Marratto. P.D: K. Curtis. C.E: V. Dionne. 1100(Sun 1200)-0500(Sat 0600).
409) P.O. Box 610, St. Catherines, Ont L2R 6X7 – Man.Dir: Miss M.C. Burgoyne. P.D: R.F. Johnston. C.E: W. Parker. 24h (silent Sun 0700-1220). **N**-1.
410) Box 620, Timmins, Ont P4N 7G3 – S.M: J. LaMothe. P.D: J.G. Desroches. C.E: R. Palmer. 1100-0600 on 620/1230/1340kHz.
410A) Kapuskasing, Ont.
410B) Hearst, Ont.
411) Box 630. Chatham, Ont N7M 5K9 – Mgr: D. Thomas. P.D: R.E. Nelson. C.E: G. Heinz. 24h.
412) Box 630, Smiths Falls, Ont K7A 4T4 – G.M: J.W. Pollie. S.M: H. Botham. C.E: A. Bonneau. 24h. **N**-1.
413) Box 820, Huntsville, Ont P0A 1K0 – G.M: H.K.N. Mackenzie. P.D: F. Botham. C.E: K. Harbinson. 1100-0459 on 630/1340kHz. **N**-1 and 1130, 1230, 1730.
413A) 28 William Str, Parry Sound, Ont – Prod.Mgr: F. Robinson.
414) Box 1046, Timmins, Ont P4N 7H8 – G.M: G.V. Marratto. P.D: A. Thom. C.E: B. Hooper. 24h (off Mon 0505-1100). **N**-1.
415) 25 Adelaide Str East, Toronto, Ont M5C 1H3 – Mgr: C. Camroux. C.E: R.H. Turnpenny. 24h. **N**-2.
416) Box 710, Niagara Falls, Ont L2E 6X7 – Mgr: D.E. Lyman. P.D: R. O'Brien. C.E: H. Pressey. 24h. **N**-1.
417) Box 70, Leamington, Ont N8H 3W1 – G.M: J.C. Garton. P.D: Lou F. Tomasi. C.E: T. Cribble. 24h in English (and Ukranian, German, Italian, Hungarian). Sunrise to sunset on 710kHz, night on 730kHz.
418) Box 1120, Blind River, Ont P0R 1B0 – Mgr: H. Wolfe. P.D: D. Primeau. C.E: R.G. Rylatt. 1100(Sun 1200)-0510 on 730/1340kHz.
418AS) 15 Charles Walk, Elliot Lake, Ont P5A 2A2.
419) Box 400, Sudbury, Ont – G.M: W.B. Plaunt. P.D: P. Burke. C.E: H. Frauscher. 24h.
420) 2 Ellen Str, Brampton, Ont L6V 1J6 – Mgr: L.A. Allen. P.D: S. Cameron. C.E: W. Tillner. 24h (exc. Mon 0500-1100).
421) 1640 Ouellette Ave, Windsor, Ont N8X 1L1 – G.M: H.W. McCord. C.E: E.R. Buterbaugh. 24h. **N:** at :40.
422) Box 800, Fort Frances, Ont P9A 3M9 – G.M: G. McBride. P.D: K. Hardie. C.E: J. Gauld. 24h.
423) Box 488, Belleville, Ont K8N 1L5 – Mgr: F.C. Murray. C.E: D.K. Vanderwater. W 1030-0600(Sat 0500), Sun 1225-0400 on 800/1240kHz. **N**-1.
423A) Bancroft, Ont.
424) 848 Main Str East, Hamilton, Ont L8M 1M1 – G.M: T.E. Darling. S.M: R. Drew. C.E: Ed. Victor. 24h. **N**-2, 1245, 2300, 0400.
425) Box 580, Dryden, Ont P8N 2Z3 – S.M: H.A. Syrja. C.E: J.G. Gauld. 1300-0500. **N:** at :20, :40.
426) 249 Kent Str W, Lindsay, Ont K9V 2Z3 – G.M: J.A. McNabb. P.D: Bob Eakins. C.E: Ray McMurray. May 19-Oct 14: 24h (exc. Mon 0500-1100). Oct 15-May 18: 1153-0702.
427) Box 920, Sault Ste Marie, Ont P6A 5N6 – G.M: C.P. Greco. S.M: R. Holdenley. C.E: R.G. Rylatt. 24h. **N**-3.
428) 215 Carling Terrace, Wingham, Ont – Mgr: J. Langridge. C.E: S. Reid. 1100(Sun 1300)-0408. **N**-1.
429) Box 950, Barrie, Ont L4M 4V1 – G.M: W. Bjorgan. P.D: B. Henderson. C.E: J. Evans. 1100-0500 on 950/1400kHz.
429A) 84 Hurontario Str, Collingwood, Ont L9Y 3Z7 – Mgr: R. Hooper. P.D: J. Nichols. C.E: B. Verwey.
430) 170 Queen Str, Kingston, Ont K7K 1B2 – S.M: A. Brooks. P.D: C. Cogan. C.E: L.A. Cameron. 24h. **N**-1.
431) Box 2580, London, Ont N6A 4H3 – S.M: C.N. Knight. P.D: B. Brady. C.E: G.A. Robitaille. 24h. **N**-1.
432) Box 659, Peterborough, Ont K9J 6Z9 – G.M: W. Rewegan. P.D: Don O'Neil. C.E: Ben Wilke. 24h (off Mon 0510-1000). **N**-1.
433) 2 St. Clair Ave West, Toronto, Ont M4V 1L6 – G.M: D.W. Insley. P.D: J. Spragge. C.E: C. Eastwood. 24h. **N**-3.
434) 1331 Yonge Str, Toronto, Ont M4T 1Y1 – G.M: A.F. Waters. P.D: J.R. Wood. C.E: G. Jones. 24h. **N**-1 exc. 0000, 0200, 0400.
435) Box 870, Sault Ste Marie, Ont P6A 3C7 – Mgr: R.H. Ramsay. P.D: A. Osborne. C.E: S. Corbett. 24h on 1050/1240kHz.
435A) Box 1220, Wawa, Ont – Mgr: F.J. Zimmermann. P.D: G. Jonescu. Own prgr's Mon-Fri 2000-2400.
436) Box 1070, Sarnia, Ont N7T 7K5 – G.M: K.E. Monk. P.D: S. Glenn. C.E: R.F. Cooke. Mon-Fri 1000-0600, Sat 1100-0500, Sun 1200-0500. **N**-1.
438) 864 King Str West, Kitchener, Ont N2G 1E8 – G.M: W.D. McGregor. P.D: D. Fisher. C.E: P. Turchan – 24h.
439) 681 Belfast Rd, Ottawa, Ont K1G 0Z4 – G.M: G. Lebel. P.D: M. Lavoie. C.E: A. Bonneau – 24h. **N**-3.
440) Box 1150, Hamilton, Ont L8N 3P5 – Mgr: R.K. MacDonald. P.D: G. Summers. C.E: A. Bennett – 24h. **N**-1.
441) 1308 Pitt Str. Cornwall, Ont K6J 3T6 – G.M: B. Bertrand. P.D: P. Julien. C.E: D. Williamson – Daytime only on 1110/1170kHz.
441A) Hawkesbury, Ont.
442) Box 1220, St. Catharines, Ont L2R 7C7 – Mgr: M.F. Hanson. C.E: R.W. Brundle – 24h. **N**-1.
443) Box 2490, Kenora, Ont P9N 1F9 – Mgr: V.J.V. St. Pierre. P.D: P. Nelson. C.E: J. Gauld – 24h. **N**-1.
444) Box 969, Cornwall, Ont K6H 5V1 – Man.Dir: P. Emard. P.D: D. Laflave. C.E: R. Levy. 1100(Sun 1300)-0500.
445) Box 2747, Thunder Bay, Ont P7B 5G2 – G.M: R.H. Parker. 24h. **N**-1.
446) 490 Dominion Ave, Midland, Ont L4R 1P6 – Mgr: R.B. Armstrong. P.D: J. Armstrong. C.E: Ken Chisholm. 1110(Sun 1300)-0500. **N**-1.
447) Box 704, Stratford, Ont N5°A 6W3 – G.M: A.D. Rogers. P.D: S. Allen. C.E: J. Grigg. 1055(Sun 1255)-0505.
448) Box 1250, Sarnia, Ont N7T 5W6 – G.M: Len C. Evans. P.D: C. Ingram. C.E: R.J. Sibbitt. 24h. Italian Sun 1600-1655. **N:** at :55.
449) 490 Wyecroft Rd, Oakville, Ont L6K 2H1 – Pres: J. Caine. Mgr: M. Caine. C.E: A. Velleman. 24h. Italian, Ukrainian, Portuguese Mon-Fri 2330-0230, Sat Sun (incl. Polish, Greek, Hindi) 1630-0330.

449A) Box 1190, Port Credit Postal Sta, Mississauga, Ont – Daytime only on 1190kHz.
450) 105 Main Str E, Hamilton, Ont L8N 1G5 – Mgr: R.F. Irvine. P.D: W. Dion. C.E: B. Dingwall. 24h. **N**-1.
451) Box 1290, Terminal A, London, Ont N6A 5A2 – Mgr: D.B.R. Richardson. P.D: J. Stevens. C.E: J. Guy. 24h. **N**-2.
452) 50 Yonge Str N, Richmond Hill, Ont L4C 3B7 – G.M: A. Slaight. P.D: B. Andersen. C.E: B. Carnegie. 24h (silent Mon 0500-1100). **N**: at :55, also :25 during drive hours. **V**. Rpt's not verified.
453) Box 8514, St. "C", Ottawa, Ont K1Y 4G7 – Mgr: J. Daly. P.D: B. Lee. C.E: S. Harrison. 24h.
454) 46 Main Str, Cambridge, Ont N1R 1V4 – G.M: J.V. Evans. P.D: J. Etherton. C.E: J. Stone.
455) Box 100, Woodstock, Ont N4S 7W7 – G.M: W.D. Hulme. C.E: D. Zufelt. 1100-0600. **N**-1.
456) 360 King Str W, Oshawa, Ont L1J 2K2 – Mgr: G.G. Garrison. P.D: B.P. Sarazin. C.E: W.C. Marchand. 24h (exc. Mon 0500-1000). **N**-1.
457) 319 Pembroke Str E, Pembroke, Ont K8A 5X1 – G.M: E.G. Archibald. P.D: P. Leonard. C.E: W.E. Schmidt. 1100-0505 (Fri & Sat 0700), Sun 1300-0500.
458) Box 1380, Kingston, Ont K7L 4Y5 – G.M: C.J. Bermingham. P.D: J. Thompson. C.E: A. Aufleger. 24h. **N**-1.
459) 571 West Str, Brantford, Ont N3T 5P8 – G.M: R.D. Buchanan. P.D: A.R. Anderson. C.E: J.A. Featherston. 1030(Sun 1130)-0600.
460) 97 MacMaster Ave, Ajax, Ont L1S 2E6 – Mgr: B. Barker. P.D: B. Bowland. C.E: P. Norman – 24h.
461) Box 96, Renfrew, Ont K7V 4A2 – Mgr: M. Burns. P.D: M. Papousek. C.E: D. Bell. 1100(Sun 1300)-0500. **N**-2.
462) Box 5172, London, Ont N6A 4E4 – G.M: W.E. Robinson. P.D: W.B. Hall. C.E: W.E. Post. 24h. **N**: at :15, :45.
463) Box 177, Peterborough, Ont – G.M: J.J. Manol. P.D: K. Cassavoy. C.E: G. Jones – 24h. **N**-1.
464) 1 Greenville Str, Toronto, Ont M4Y 1A2 – G.M: B.J. Nesbitt. C.E: G.A. Wilson. 24h. **N**: at :55.
465) 140 Wellington Str, Toronto, Ont K1P 5A2 – G.M: J. Ruttle. P.D: Jim Jackson. C.E: H. McRae. 24h.
466) Box 666, Brockville, Ont K6V 5V9 – G.M. & C.E: J.A. Radford. 24h. **N**-1.
467) Box 520, Cobourg, Ont K9A 4L3 – G.M: N.A. Hickey. P.D: D. Watson. C.E: T. Joice. 1100-0500.
468) 75 Speedvale Ave E, Guelph, Ont N1E 1M8 – Mgr: N.A. Stillman. P.D: G. Field. C.E: L.D. Smith – 24h. **N**-1.
469) Regional Rd 23, Welland, Ont L3B 3N5 – Mgr: G.W. Burnett. C.E: L. Holleran – 24h. **N**-3.
470) Queens University, Kingston, Ont K7L 3N6 – S.M: S. Cutway. Thurs, Fri 2300-0700, Sat 1700-0900, Sun 1300-0700(Thurs, Fri during school sessions only).
471) 305 King Str W, Kitchener, Ont – Mgr: J.E. Larke. P.D: V. Rombough. C.E: P. Firminger – 24h. **N**-1. German Mon 2h/weekly. **F.PI**: 5/10kW on 570kHz.
472) Box 10, Tillsonburg, Ont N4G 4H3 – S.M: J.D. Lamers Jr. C.E: R. Lamers – Daytime only (Jan 1300-2215, July 1000-0100).
473) 637 College Str, Toronto, Ont M6G 1B6 – Mgr: C. Redhead. P.D: J. Wong. C.E: P.W. Hunter. 1100-sunset – Prgr's in 32 languages. Mainly English sunrise to noon, Italian noon to sunset. **N**-1.
474) 133 Curtis Str, St. Thomas, Ont N5P 3T8 – G.M: J.L. Moore. P.D: C. Azzarelle. C.E: C. Joyce. 1100-0601.
475) 241 W Str. No, Orillia, Ont – Mgr: S. Fysh. C.E: L. Dean – 24h.
476) Box 1600, Simcoe, Ont N3Y 4K8 – Mgr: M.R. Redmond. P.D: R. Hart. C.E: R. Brundle. 1100-0500. **N**-1.

Quebec

500) 3550 Blvd. Royal, Trois-Revières, Que G9A 5G8 – G.M: P. Germain. P.D: M. Bourget. C.E: O. Lefebvre – 24h. **N**: at 15 and 45 min's past the h.
501) 700 Blvd. Laure, Sept-Iles, Que G4R 1Y1 – Mgr: Y. Bergeron. P.D: Ray Perrault. C.E: H. La Pointe – 24h on 560/710kHz.
501A) Port-Cartier, Que.
502) 1147 Blvd. Blanche, Hauterive, Que G5C 2C6 – G.M: H. Desjardins. P.D: C. St. Pierre. C.E: G. DeVarennes – 24h. **N**-2.
503) C.P.59, Jonquiere, Que – Mgr: A. Soucy. P.D: J.P. Berthiaume. C.E: R. Allard – 24h. **N**-1.
504) 405 Ogilvy Ave, Montreal, Que H3N 1M4 – GM: W. Machney. P.D: J. Kidd. C.E: J. Thompson – 24h.
505) Main Str, New Carlisle, Que G0C 1Z0 – Man.Dir: Dr. Chas Houde. P.D: A. Houde. C.E: C. Morneau. 1030(Sun 1300)-0400.
506) Box 90, Mont-Laurier, Que J9L 3G9 – G.M: P. Ryan. S.M: P. Lessard. C.E: R. St. Jean – 1100(Sun 1300)-0500 on 610/1340/1400/1490kHz. **N**-2.
506A) Maniwaki, Que.
506B) C.P. 490, St-Jovite, Que J0T 2H0 – Mgr: R. Ouelette.
506C) L'Annontiation, Que.
507) 3330 King Str, W, Sherbrooke, Que J1L 1C9 – G.M: Lloyd G. Schreib. P.D: R. DeCourcel. C.E: R. Thiebaut – 24h.
508) 385 Main St, Lachute, Que J8H 1Y1 – Pres: R. de la Durantaye.
509) C.P. 278, Ville-Marie, Que J0Z 5W0 – G.M: C.E. Laverdière. P.D: G. Labelle. C.E: R. Tasset – 1130(Sun 1300)-0500 on 710/1340kHz. (CKVT Temiscamingue). **N**-1.
510) 1400 Metcalf Str, Montreal, Que H3A 1X4 – Mgr: P. Beland. P.D: J. Gravel. C.E: Y. Picard – 24h. **N**: at :15 & :45.
511) Box 8080, Quebec, Que G1K 7R9 – G.M: P. Chamberland. P.D: Y. Lorrain. C.E: G. Paré – 24h. **N**-3.
512) 1407 Mountain Str, Montreal, Que H3G 2Z4 – Mgr: H.T. McCurdy. S.M: Wm. E. Hambly. C.E: E. Mott – 24h. **N**-3.
513) 211 Gordon Ave, Verdun, Que H4G 2R2 – Mgr: A. Cloutier. P.D: P. Tietolman. C.E: M. Rosseau – French 24h. **N**: at :55, :25.
514) 273 St-Jean Baptiste West, Rimouski, Que G5L 4J8 – G.M: A. Decarie. C.E: R. Therriault. 1000-0600 exc. Fri Sat 24h on 900/1450kHz. **N**: at :15 & :45. (CJBM Causapscal).
515) Box 900, Saint-Jerome, Que J7Z 5K9 – G.M: J. Lalonde. S.M: J.R. Fox – 24h.
516) 3330 King Str W, Sherbrooke, Que J1L 1C9 – G.M: M. Blais. P.D: B. Dewar. C.E: T. Thiebault. 0705.
517) 768 Blvd. St. Joseph, Roberval, Que G8H 2L4 – Mgr: B. Levesque. P.D: G. Gagnon. C.E: M. Bolduc. 1100-0600. **N**-2.
518) Box 430, Hull, Que J8X 3Y4 – G.M: H. Delorme. P.D: G. Payant. C.E: Y. Picard. 24.
519) 1810 Greene Ave, Montreal, Que H3Z 2P5 – G.M: J. Sward. P.D: B. McLean. C.E: B. Thomas. 24h. **N**-2.
520) 1300 Blvd. Laurier, Quebec, Que G1S 1L8 – Mgr: G. Hérard. P.D: L. Provencher. C.E: H. Brochu – 24h. **N**: at :00(netw.), :30(local).
521) 1350 rue Royal, Trois-Rivières, Que G9A 4J1 – G.M: J. Black. P.D: A. Carbonneau. C.E: S. Simard. 24h. **N**-3.
522) C.P. 695, Shawinigan, Que – Mgr: A. Chartier. C.E: M. Bellemare. 1100(Sun 1300)-0600.
523) C.P. 1810, Dolbeau, Que G0W 3A0 – Mgr: C. Duchaine. C.E: C. St. Arnault. 24h. **N**-1.
524) C.P. 69, Thetford Mines, Que G6G 5S3 – Mgr: F. Labbé. P.D: I. Gould. C.E: G. Duval. 24h on 1230/1340/1380/1400/1420kHz. **N**-1.
524A) C.P. 57, Asbestos, Que J1T 1S4.
524B) C.P. 490, Victoriaville, Que G6P 4E1.
524C) C.P. 130, Lac Mégantic, Que G6B 2S6 – P.D: I. Goulet.
524D) C.P. 160, Plessisville, Que G6L 2Y7 – S.M: G. Bergeron. P.D: I. Goulet.
525) C.P. 60, Ste-Agathe-des-Monts, Que J8C 1J2 – Mgr: P. Lessard. C.E: A. Hourlier. 1100-0600. **N**-1.
526) Box 310, La Tuque, Que G9X 3P3 – Man.Dir: J. Trepanier. P.D: L. Leclerc. C.E: A. Brassard. 1130(Sun 1330)-0430.
527) 552, 3 rue, Suite 202, Chibougamau, Que G8P 1N9 – Mgr: G. Savard. C.E: R. Dessureau. Prgr on 1240/1340kHz. (CFED Chapais).
528) B.P. 2000, Levis, Que G6V 6P5 – Mgr: R. Coulombe. P.D: P. Champion. C.E: Y. Brouard – 24h.
529) 855 Ave Ste-Marie, St-Hyacinthe, Que J2S 4R9 – Man.Dir: R. Duceppe. C.E: L. Caron. 1100(Sun 1230)-0512.
530) 791 Sud du Pont, Alma, Que G8B 2V4 – G.M: N. Bergeron. C.E: J.R. Maltais. 1100-0500. **N**: at :55.
531) 1700 Berri, Montréal, Que H2L 4E8 – G.M: P.M. Dufour. P.D: J.C. Gilliot. C.E: J.C. Lalancette – 24h. **N**-3.
532) 800 Place d'Youville, Quebec, Que G1R 3P4 – Mgr: C. Croutau. P.D: P. Beaulé. C.E: R. Moreau – 24h. **N**: at :15, :45.
533) 800 du Phare, Matane, Que G4V 1V7 – P.D: A.C. Giroux. C.E: R. Fortin – 24h. **N**: at :55 (1200-2200) or :27½ & :57½.

534) 508 4th Ave, La Pocatière, Que G0R 1Z0 – Mgr. & C.E: M.A. Freve. 1100-0500 on 1310/1350kHz. **N**-1.
534A) 53, rue Commerciale, St-Pamphile, Que.
535) 59a du Prince, Sorel, Que J3P 3J5 – G.M. & P.D: P. Vachon. C.E: J. Cardin. 1100(Sat, Sun 1300)-0500. **N**-3.
537) C.P. 122, Joliette, Que J6E 2L6 – G.M: J.M. Goulet. C.E: P. Cardin. 1100(Sat, Sun 1200)-0500. **N**-3.
538) C.P. 1360, Ste-Marie, Que G0S 2Y0 – G.M: J. Vachon. P.D: R. Robitaille. C.E: G. Guay. 18h. **N**-3.
539) Box 1870, Valleyfield, Que J6T 1A9 – G.M: J.C. Lefebvre. C.E: Y. Allard. 1100-0530(Sat 0600), Sun 1300-0500.
540) Box 70, Rouyn, Que J9X 5C2 – G.M: A. Gourd. P.D: P. Thibault. C.E: M. Boulanguer. W 1100-0700, Sat, Sun 1200-0500 on 900/1240/1340/1400kHz. Netw st's broadcast own prgr's exc. W 2300-0330. **N**-1.
540A) 1187-3e Ave, Val d'Or, Que.
540B) 17-5e Ave E, La Sarre, Que J9Z 1K7
540C) 69-Ire Ave Ouest, Amos, Que J9T 1T4.
541) 1 rue Frontenac, Rivière-du-Loup, Que G5R 1R7 – Mgr: Luc Simard. P.D: M. Simard. C.E: G. Gélinas. 1100-0100(Sat 0500) on 1240/1400/1450kHz. From 0100 relay CBC.
541A) Cabano, Que.
541B) St. Eleuthére, Que.
542) 2070 rue St-Georges, Drummondville, Que J2C 5G6 – G.M: Belanger – 24h. **N**-3.
543) 2015 Drummond Str, Montreal, Que H3G 1W8 – G.M: C.G. Stanzcykowski. C.E: A. Mielewczyk – 24h in E, F and 15 other languages. **N:** every 30 min.
544) 365 rue Racine-East, Chicoutimi, Que G7H 7S8 – G.M: P. Tremblay. P.D: G. Sénéchal. C.E: L. Simard. W 1030-0800, Sun 1100-0501.
545) 136 rue Principal, Granby, Que J2G 2V4 – G.M: L. Gendreau. P.D: J.L. Boisseau. C.E: P. Racine. 1100-0600.
546) C.P. 100, St. George-de-Beauce, Que G5Y 5C4 – Mgr: J. Venne. P.D: G. Bernier. C.E: R. Berube. 1100(Sun 1430) – 0500 on 920/1460.
546A) Lac Etchemin, Que.
547) 203 Hymus Blvd, Pointe Claire, Que H9R 1E9 – G.M: J. McElligott. P.D: Don McLean. C.E: M. Eccles – 24h. **N:** at :55.
548) Bagotville, Que.
549) 449 rue Hériot, Drummondville, Que J2B 1B4 – G.M: G. Lemieux. P.D: J. Papin. C.E: R. Saillant. 1100(Sun 1200)-0600.
550) B.P. 820, St-Anne-des-Monts, Que – Mgrs: M. Vallée, P. Vallée. P.D: F. Pelletier. C.E: M. Vallée. 1100(Sun 1300)-0500. **N**-1.
551) C.P. 216, Montmagny, Que G5V 1M3 – Mgr: A. Mercier. P.D: O. Poitras. C.E: H. Fortin. 1200(Sun 1400)-0500.
552) 2655 Ouest rue King, Sherbrooke, Que J1L 1C1 – G.M: R.A. Paradis. P.D: J. Pelletier. C.E: J.C. Lalancette.
553) 1600, Est boul. St. Martin, Laval, Que H7G 4R[– G.M: G. Morin. P.D: D. Bergeron. C.E: M. Bellemare – 24h. **N:** at :10, :40.
554) 2019 Blvd. Taschereau, Longueuil, Que J4K 2Y1 – G.M: P.P. Elie. P.D: H. Ledoux. C.E: Y. Rancourt – Daytime only.

New Brunswick

600) Box 217, Fredericton, N.B E3B 4Z4 – G.M: J.T.H. Fenety. P.D: J.W. Richards. C.E: G.D. Love. 24h. **N**-3.
601) Box 188, Edmundston, N.B E3V 3K8 – S.M: G.A. Lebel. P.D: J.P. Pampalon. C.E: M. Vallée. Prgr (French and 10% English): 1000(Sat 1100, Sun 1200)-0500 on 570/1490kHz.
601A) Grand Falls, N.B.
602) Box 338, Newcastle, N.B E1V 3M5 – Mgr: Ian Byers. P.D: D. Cochrane. C.E: Dick Alberts. 1000-0500(Sat 0600).
603) Caraquet, N.B.
604) Box 920, Woodstock, N.B E0B 2E0 – Mgr: B.A. Smith. C.E: D. Finnie – 24h.
605) Box 930, St. John, N.B E2L 4E2 – Mgr: R. McLenaghan. P.D: M. Lee. C.E: G. Miller. 24h. **N:** at :25.
606) Box 340, Campbellton, N.B E3N 3G7 – G.M: D. Alberts. C.E: Les Rooke. 1000(Sun 1100)-0500. **N**-1.
607) 335 Union Str, Saint John, N.B E2L 1B3 – Mgr: D. Lafave. P.D: J. Day. C.E: R. Dowling. 24h. **N**-1 exc. 2300-0300, **N**-3 1100-1400.
608) Box 1220, Moncton, N.B E1C 8R1 – Mgr: G.L. Crowell. P.D: D. Pond. C.E: R. Oke. 24h on 590/1220kHz.
608A) Box 590, Sussex, N.B – Mgr: S. Gillis. Own prgr's Mon-Fri 1000-2200, Sat 1000-Sun 0430.
609) Box G, Bathurst, N.B E2A 3Z2 – G.M: W.A. Winton. P.D: A. Hebert. C.E: P. Paquet. (English & some French) 1000-0500(Sun 1200-0400). **N**-1.

Prince Edward Island

700 Box 1060, Charlottetown, PEI C1A 7M8 – Mgr: Don Chamberlain. P.D: L. McAuley. C.E: W. Corney. 24h.
701) Box 1190, Charlottetown, PEI – Mgr: Al MacRae. P.D: Bob Henry. C.E: J.R. Bentley. 24h. **N**-3.
702) 218 Water Str, Summerside, PEI C1N 1B3 – G.M: P.H. Schurman. P.D: J. Perry. C.E: F.L. MacFarlane. 1000(Sun 1245)-0400. **N**-1.

Nova Scotia

800) Box 970, Antigonish, N.S – G.M: J.C. Nunn. S.M: B. Rafuse. P.D: R. MacDonald. C.E: D. Holmers. 0900-0315.
801) Box 788, Truro, N.S B2N 5E8 – G.M: N.H. MacMullen. P.D: W.F. Harvey. C.E: E.S. Bernasconi. W 1000-0500, Sun 1100-0400. **N**-1.
802) Box 1007, Dartmouth, N.S B2Y 3Z7 – G.M: C.A. Patterson. P.D: J.D. Cunningham. C.E: J. Hutchinson – 24h. **N**-1. **F.PI:** 50/10kW on 680kHz.
803) Box 8, Amherst, N.S B4H 3Y6 – Mgr: F.W. Arenburg. P.D: J.P. Goudet. C.E: G. Lewis. W 1000-0400(Sat 0500), Sun 1200-0400.
804) 2885 Robie Str, Halifax, N.S B3J 2Z4 – G.M: W.W. Hooper. P.D: C. Morgan. C.E: W. Labucki. 24h. **N:** at :55.
805) Box 950, Sydney, N.S B1P 6J5 – Mgr: S. Campbell. P.D: B. Henry. C.E: N. Robar – 24h.
806) 5230 Tobin Str, Halifax, N.S B3J 2Y2 – Mgr: H.E. Blackadar. P.D: G.N. Kendrick. C.E: R.H. Parker – 24h.
807) 215 Dominion Str, Bridgewater, N.S B4V 2G8 – Mgr: J.A. MacLeod. C.E: D.B. Hirtle. 0958(Sun 1058)-0415. **N**-1.
808) Box 1270, Sydney, N.S B1P 6K2 – G.M: N.L. Nathanson. P.D: F. Denney. C.E: A. Vernon – 24h. **N**-1.
809) Box 519, New Glasgow, N.S B2H 5E7 – Mgr: D. Walker. P.D: Bob Wallace. C.E: P. Lann – 24h. **N**-1.
810) Box 9, Yarmouth, N.S B5A 6W3 – Mgr: G.P. Wyman. P.D: C. Perry. C.E: D. Smith. 1000(Sun 1100)-0415.
811) Box 1410, Port Hawkesbury, N.S B0E 2V0.
812) Box 310, Kentville, N.S B4N 1H5 – Man.Dir: W.A. Bishop. P.D: L.E. Robinson. C.E: H.A.D. Morrison. 0957(Sun 1057)-0415 on 1350/1420/1450/1490kHz. **N**-1. **V.** Rep. on network st's to be sent to Kentville.
812A) Box 550, Middleton, N.S B0S 1P0.
812B) Box 1003, Digby, N.S B0V 1A0. Own prgr's Mon-Fri 1400-1600, 2103-2110, Sat 2225-2300.
812C) Box 278, Windsor, N.S B0N 2T0.

Newfoundland

900) Box 790, Corner Brook, Nfld A2H 6G7 – S.M: J. O'Rourke. P.D: I. Sooley. C.E: J. Parsons – 24h on 570/790/ 910/1230/1340kHz.
900A) Port au Choix, Nfld – 24h.
900B) Box 276, Stephenville, Nfld A2N 2X9 – Mgr: G. Murphy. P.D: M. Hurley. C.E: J. Goosney – 24h.
900C) Box 989, Port aux Basques, Nfld – Mgr: T. Hann. P.D: B. Tulk. C.E: J. Parsons – 24h.
900D) Box 400, Goose Bay, Lab. Nfld – S.M: J.T. McGrath. P.D: A.J. Purdie. C.E: J. Price. 1000(Sun 1200)-0500. **N**-3.
900E) Box 670, Wabush, Lab. Nfld – Mgr: K. Pittman. P.D: F. Power. C.E: J. Parsons. 1030(Sun 1200)-0500.
901) Box 8-590, St. John's, Nfld A1B 3P5 – G.M: W. Williamson. P.D: P. Bradbury. C.E: R. McCausland – 24h on 560/ 590/620/710/730/1240kHz. **N**-2.
901A) Box 560, Marystown, Nfld. A0E 2M0 – S.M: R.J. Murphy. **F.PI:** 10kW.
901B) Box 620, Grand Falls, Nfld A2A 2J8 – S.M: M.A. Grace. C.E: H.G. Feltham (CKGA Gander, CKIM Baie Verte).
902) Box 7430, St. John's, Nfld A1E 3Y5 (belongs to the Wesley United Church) – Mgr: R.F. Morris. P.D: E. Hudson. C.E: C. Avery. Mon-Fri 2200-0300, Sat 1630-0300, Sun 1230-0230. 30% rlg, non comm.
903) Box 2020, St. John's, Nfld A1C 5S2 – G.M: C. Jamieson. P.D: P. Murphy. C.E: R. Zeidler. S.M: R. Pope – 24h on 610/670/680/930/1350kHz. **N**-3.
903A) Box 189, Grand Bank, Nfld – Mgr: T. Hann. P.D: L. Price. C.E: J. Vink.
903C) Box 458, Grand Falls, Nfld – Mgr: M. Roberts. P.D: S. Saunders. C.E: B. Whitehorne.
903D) Box 1350, Gander, Nfld – S.M: D.J. Wheeler. C.E: D. Stewart (CJNW=Musgravetown).
903E) St. Anthony, Nfld (under construction).
904) Box 4000, Happy Valley, Lab. Nfld.

UNITED STATES
MEXICO
CANADA
NORTH ATLANTIC OCEAN
NORTH PACIFIC OCEAN
GULF OF MEXICO
GULF OF CALIFORNIA
GULF OF CAMPECHE
CARIBBEAN SEA
BERMUDA ISLANDS
BAHAMAS
Bahama Islands
Great Bahama I.
HAITI
GUATEMALA
BELIZE
MEXICO
TROPIC OF CANCER
Washington
Oregon
California
Nevada
Idaho
Montana
Wyoming
Utah
Arizona
Colorado
New Mexico
North Dakota
South Dakota
Nebraska
Kansas
Oklahoma
Texas
Minnesota
Iowa
Missouri
Arkansas
Louisiana
Wisconsin
Illinois
Michigan
Indiana
Ohio
Kentucky
Tennessee
Mississippi
Alabama
Georgia
Florida
South Carolina
North Carolina
Virginia
West Virginia
Pennsylvania
New York
Vermont
Maine
New Hampshire
Massachusetts
Rhode Island
Connecticut
New Jersey
Delaware
Maryland
SEATTLE
SPOKANE
WALLA WALLA
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HELENA
BOISE
POCATELLO
RENO
SACRAMENTO
DIXON
SAN FRANCISCO
OAKLAND
BELMONT
FRESNO
EUREKA
SALT LAKE CITY
CHEYENNE
FORT COLLINS
DENVER
PUEBLO
DELANO
HOLLYWOOD
LOS ANGELES
SAN DIEGO
TIJUANA
ENSENADA
MEXICALI
PHOENIX
TUCSON
ALBUQUERQUE
EL PASO
CIUDAD JUAREZ
GRAND FORKS
RAPID CITY
SIOUX FALLS
MINNEAPOLIS
MASON CITY
OMAHA
LINCOLN
DES MOINES
DAVENPORT
WATERLOO
MILWAUKEE
CHICAGO
ST. PAUL
DULUTH
Lake Superior
L. Huron
KANSAS CITY
TOPEKA
WICHITA
ST. LOUIS
JEFFERSON CITY
SPRINGFIELD
OKLAHOMA CITY
LITTLE ROCK
MEMPHIS
NASHVILLE
LOUISVILLE
CINCINNATI
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DAYTON
BETHANY
CLEVELAND
DETROIT
BUFFALO
PITTSBURGH
HARRISBURG
RED LION
BALTIMORE
WASHINGTON
RICHMOND
CHARLESTON
NEWARK
NEW YORK
TRENTON
PHILADELPHIA
DOVER
MONTPELIER
MANCHESTER
CONCORD
BOSTON
SCITUATE
PROVIDENCE
HARTFORD
AUGUSTA
PORTLAND
RALEIGH
GREENVILLE
CHARLOTTE
COLUMBIA
ATLANTA
AUGUSTA
CHARLESTON
SAVANNAH
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BIRMINGHAM
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NEW ORLEANS
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NUEVO LAREDO
PARRAL
SABINAS
MONTERREY
SALTILLO
REYNOSA
RIO BRAVO
CULIACAN
DURANGO
LA PAZ
MAZATLAN
ZACATECAS
SAN LUIS POTOSI
AGUASCALIENTES
TEPIC
GUADALAJARA
LEON
QUERETARO
PACHUCA
MORELIA
URUAPAN
COLIMA
MEXICO CITY
TOLUCA
CUERNAVACA
PUEBLA
ORIZABA
JALAPA
VERACRUZ
TAMPICO
MERIDA
CAMPECHE
VILLAHERMOSA
TUXTLA GUTIERREZ
CHILPANCINGO
OAXACA
ACAPULCO
JUCHITAN
TAMPA
PALM BEACH
MIAMI
MARATHON
TALLAHASSEE
JACKSONVILLE
DAYTONA BEACH
45°
135°
120°
90°
30°
15°
105°
75°
0
500
1000
1500 KM
G.M.T. -8
G.M.T. -7
G.M.T. -6
G.M.T. -5

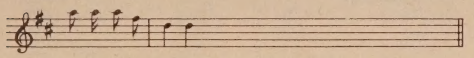
905) 106 Freshwater Rd, St. John's, Nfld A1C 2N8 – Mgr: R.A. Matthews. C.E: E. Hodder. 2030(Sat 1400, Sun 1130)-0203. Rlg (Seventh-Day Adventist Church). **N**-1.

AFRTS
Box 2, Argentia, Nfld or FPO, New York, NY 09597 – S.M: K.K. Kalish. 1480 50W. 1000(Sat, Sun 1030)-0230(Sun 0130). **N:** on the h.

GREENLAND (Danish Territory)

L.T: GMT–3h (Thule area: GMT–4h) – **Pr.L:** Greenlandic. Danish – **E.C:** (Godthåb): a/c 50, 220/380V (yes).

GRONLANDS RADIO (Gov.)
ADDR: Grønlands Radio, P.O. Box 607, DK-3900 Godthåb. **Te:** 21172. **Cable:** 91147 gradio gd.
L.P: Dir. of Broadc: Finn Lynge. Dir.Prgr: Hans Hansen. Dir.N: Ole Oxholm(Const). Dir.Adm: Tove Knudsen. Dir.Tec.(studio): Kaj Sivertsen. Dir.Tec.(engineer): Arne Mortensen.
STATIONS: Mediumwave: Godthåb 570kHz 25kW – Godhavn 650kHz 5kW – Simitaq (by Julianehåb) 700kHz 20kW. **FM** (all 0.05kW): Godthåb 90.5 and 97MHz – Frederikshåb 96.25MHz – Søndre Strømfjord 96.0MHz – Holsteinsborg 95MHz – Angmagssalik (taped prgrs 3 weeks later) 98.1MHz – Scoresbysund (taped prgrs 4 weeks later) 96.1MHz **Shortwave:** Godthåb (G.C: 52.00W/ 64.00N): 3999kHz 10kW (d.No. and Ea) – 9575kHz 1kW (d. No. and Ea) – 5980kHz 1kW (d.No).
HOME SCE: Mon-Fri 1015-1630, 1900-0300(Fri 0330); (Summer: Mon/Wed/Fri 1015-1145, 1500-1630, 2000-0300(Fri 0330); Tues/Thurs 1015-1145, 1500-1630, 1900-0300), Sat 1015-0330; Sun 1130-0210 – **N:** 1030, 1515, 2000, 2130, 0130 (Sun 1900, 2130, 0130) – **Wrp:** 1035, 1525, 2120, 0200 (Sun 1130, 1500, 2145, 0200).
ANN: "Kallaallit-Nunaata Radioa .... Grønlands Radio. . . . You are listening to Radio Greenland . . . . Vous etes a l'antenne de Radio Groenland" – **INT-SIG:** "Sunnia kalippoq" (The Whaleboat "Sonja" drags whale) played on celeste.



AFRTS (US Air Force)
STATIONS: Søndre Strømfjord* 1420kHz 0.25kW. Thule† 1210kHz 1kW.
ADDR: *) APO New York 09121, USA; †) APO New York 09023. **D.Prgrs:** 24h.

St. PIERRE ET MIQUELON (French)

L.T: GMT–3h – **Pr.L:** French.

FRANCE REGION 3
ADDR: B.P. 7, St. Pierre et Miquelon. **Te:** 051. **Cable:** Fr3.
L.P: St.Dir: S. Palmier. Dir.Tec: M. Abrard.
STATION: 1375kHz 4kW.
HOME SCE in French: 0930(Sun 1000)-0145 – **N:** 1030, 1530, 1900(Sun), 2000(Sun), 2300 – **Wrp:** 1030, 1100, 1545, 2300, 2315.
ANN: "Ici France Région 3, Station de Saint-Pierre et Miquelon" – **INT-SIG:** as France Inter (ORTF) – **V.** by letter.

UNITED STATES OF AMERICA

L.T: See World Time Table – **Pr.L:** English.

VOICE OF AMERICA (Gov.)
"THE VOICE OF AMERICA" is the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen co-operative international relations.
ADDR: Voice of America, US Information Agency, Washington DC 20547.
L.P: Dir. US Information Agency: James I. Keogh. Dir.Broadc.Sce: Kenneth R. Giddens. Dep.Dir: Serban Vallimarescu. Dep.Dir.Prgr: Jack Shellenberger. Dep.Asst.Dir.Eng. & Techn.Ops: Kenneth H. Langenbeck. Dir.TV(Motion Picture) Sce: Robert S. Scott. Chief, Frequency Division: George Jacobs, PE.

STATIONS: Call-letters not used.
Greenville, No. Carolina: 6×500kW, 6×250kW and 6×50kW tr's – **Bethany,** Ohio: 3×250kW and 3×175kW tr's – **Delano,** Calif: 3×250kW, 1×200kW and 2×50kW tr's – **Dixon,** Calif: 3×250kW, 1×200kW, 2×100kW and 2×50kW tr's – **Marathon,** Fla: 1×50kW MW-tr.
GC: Greenville 77.22W/35.35N, Bethany 84.21W/39.21N; Delano 119.17W/35.45N; Dixon 121.45W/38.23N; Marathon 81.05W/24.42N.
East Coast Stations: *Bethany, others Greenville,

Nov-Feb	
kHz	**Times**
5995	0200-0700
6015	0600-0800
6020	0230-0600
6025	0600-0630
*6040	2345-0100
6055	0700-0730
6080	0600-0800
6125	0200-0600
6130	0230-0400
6190	0000-0330
9525	1130-1400
9530	0230-0400
	0430-0800
9560	1900-2200
9565	0200-0800
9580	1000-1100
9590	1830-2200
9600	1900-2200
9635	0200-0600
9640	2200-0200
9670	2300-0700
9725	0000-0300
9765	0930-1100
11710	1800-2200
11730	0930-1100
*11740	2215-0300
11760	1800-2130
*11830	2345-0100
11840	1830-2230
11850	1900-2200
*11890	1130-1400
11895	0000-0100
11915	2130-2230
11935	1200-1300
	1800-2200
11955	2300-2400
*15140	1830-2200
15160	2200-2345
15180	1630-2230
15205	1400-2200
15235	1100-2200
15260	1600-1800
15280	1130-2200
15300	1600-1800
15395	1400-2230
*17710	1600-2200
17730	2200-2345
*17740	1630-1830
17785	1530-1830
17800	1400-1800
*17800	1830-2230
17855	1200-1600
*17890	1200-1800
21485	1600-2200
21500	1400-1800
21670	1600-1800
21740	1400-1630

Mar-Apr	
kHz	**Times**
5995	0200-0700
6015	0600-0800
6020	0300-0600
6080	0600-0800
6125	0200-0600
*6130	0000-0200
6190	0000-0330
9510	0030-0330
*9525	1130-1400
9530	0300-0400
	0600-0800
9565	0230-0800
9580	1000-1100
9600	1900-2200
	0000-0200
9630	0600-0630
9635	0200-0600
9640	2200-0030
9670	2230-0700
9705	0300-0400
9725	0000-0300
9765	0930-1100
11730	0930-1100
11740	2215-0200
11760	1900-2200
11805	1800-2200
11840	1830-2230
11890	1100-1400
11935	1200-1300
11955	2300-2400
*15160	2200-2345
15165	2100-2230
15180	1830-2100
15205	1900-2200
15235	1100-2200
15250	1400-1900
15260	1600-1800
15280	1130-2200
15395	1400-2230
15410	1400-1430
	1600-2200
*17710	1600-2200
17730	2200-2330
*17740	1630-1830
17785	1530-2200
*17800	1830-2230
17800	1400-1800
17855	1200-1800
*21485	1600-2200
21500	1400-1800
21670	1600-1900
21740	1400-1700

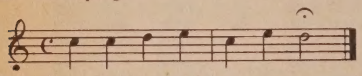
West Coast Stations: *Dixon, others Delano.

Nov-Feb kHz	Times	Mar-Apr kHz	Times
5955	1100-1400	*5955	0830-0900
*6010	1000-1100		1100-1400
*6125	0800-1600	*6010	0200-0415
6145	1530-1700	6095	0800-1500
6185	1030-1600	6125	0800-1500
9545	0800-1100	*6145	1000-1700
	1200-1600	6185	1030-1600
*9565	0900-1600	*9545	0800-1100
9565	1030-1600		1200-1600
9605	1100-1200	9565	1030-1600
9650	0830-0900	*9605	1100-1200
	1400-1500	9650	1530-1700
*9650	1530-1700	*9730	1100-1400
*9660	1000-1400	*11740	0000-0200
9730	1100-1400	*11770	0130-0230
*11740	0000-0200	*11830	1500-1600
11770	0200-0330	11850	1530-1700
	2130-2200	*11915	2130-2200
*11805	0200-0700	11920	0200-0330
11830	1530-1700	15115	2230-2330
11865	1400-1600	15205	0000-0200
*11920	0130-0215	15250	2200-2400
15115	2230-2330	15270	0130-1230
15205	0000-0200	*15365	2130-0030
15250	2200-0330	17750	2130-0030
*15270	0130-0230	*17820	2200-2400
15365	2130-0030	17840	0130-0230
*17750	2130-0030	17850	2230-2330
17780	0100-0200	*17895	2200-0100
17820	2200-2400		
17840	0130-0230		
17850	2230-2330		
17895	2200-0100		
21610	2200-2400		

ANN: Station identification is announced in English: "You are listening to the Voice of America from Washington DC".

RELAY STATIONS: For freq's of the relay stations, refer to the individual countries: Ceylon, Germany, Great Britain, Greece, Liberia, Morocco, Philippines, Ryukyu Islands.

ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English – **INT-SIG:** Musical signature, "YANKEE DOODLE", is played at the beginning and conclusion of transmissions and within programs.



PUB: Prgr. schedule available upon request – **V.** by QSL-card.

PROGRAMS IN ENGLISH

A=Nov-Feb; B=March-April.

To Europe	A	B	Remarks
0300-0700	9670b	9705e	a) 0400-0700
	7325d	9670a	b) 0500-0700
	7200	7325d	c) 0300-0400
	6060f	7295b	0600-0700
	5955	7230i	d) 0600-0700
	3980	7200h	e) 0300-0400
	791a	6060h	f) 0300-0600
		6040	h) 0300-0500
		5995	i) 0400-0600
		5955a	
		3980	
		1196c	
		791a	
1700-2200	17785k	17785	a) 1700-1730
	15205	15205	b) 1800-2200
	9760	15250i	c) 1900-2200
	9590g	11760c	d) 2100-2200
	7170	9760	e) 1800-1930
	6040	7170b	g) 1830-2200
	3980	6040	h) 1700-1715
	1295d	3980	i) 1600-1900
	(BBC)		k) 1700-1830
	1196h	1295d	
		(BBC)	

	A	B	Remarks
To Europe	791c	1196a	
1700-2200		791e	
To North Africa			
0300-0700	9670	9670	b) 0600-0700
	7295b	7200c	c) 0500-0700
	7200e	5995	e) 0500-0730
	5995	5955	
	5955c		
1600-2200	*21670f	*21670f	a) 1600-1830
	17785a	17785	b) 1800-2100
	11760b	9760c	c) 2000-2200
	9515d	6040h	d) 1900-2100
	6040		f) 1600-1800
	6015c		h) 1800-2200
			*Sat/Sun only
To East, South & West Africa			
0300-0730	15430a	15430a	a) 0600-0730
	11925c	11925c	b) 0300-0530
	11915a	9740	c) 0400-0730
	9740	9680a	d) 0300-0400
	9680a	9530d,a	e) 0300-0600
	*9555a	7280	*Sat/Sun only
	9530d,a	7195e	
	7280	6080a	
	7195b	6035	
	*6160a	3990	
	6080a		
	6035		
	3990		
1600-2200	21485	21485	
	17870	17870	b) 1900-2200
	17710	17710	c) 1830-2200
	15445	15445	*Sat/Sun only
	*15410	9515b	
	15140c	7195	
	7195	6045	
	6045	3990	
	3990		
To Middle East			
0300-0630	9770	9770c	a) 0300-0400
	7270	7270c	0600-0630
	7200	7200d	c) 0300-0430
	1259a	1259a	d) 0300-0500
1700-2200	9760d	9760	b) 2100-2200
	7290	9700e	d) 1900-2200
	7170	7170	e) 1700-1800
	6015b	6140e	
	1259b	6015b	
		1259b	
To South Asia			
0100-0330	17790	17790	
	15220	15220	
	15185	15185	
	11760	11760	
	11740	11740	
	7110	7110	
1300-1600	11935	15150	a) 1430-1600
	11715b	11935b	b) 1300-1500
	9670	11715c	c) 1500-1600
	7110	9760	d) 1130-1200
	6110	7110	e) 1100-1200
		6110	
		1580d,a	
		1178e	
1600-1800	11935	15150	
	9760	11820	
	9700	7110	
	9670	6140	
	7170		
	7110		
	6185		
To North East Asia			
2200-0100	17895	17895	c) 0100-0200
	17780c	15290	
	15250	15250	
	11760	6185	
	6185		

THIRTY-FIVE YEARS OF INTERNATIONAL BROADCASTING

VOA

THE VOICE OF AMERICA WASHINGTON DC 20547 USA

TO NORTH EAST ASIA

	A	B	Remarks
1100-1500	9565	9565	a) 1100-1400
	7165	7165	
	6185	6185	
	6110a	6110	
	6010	6010	
To South East Asia			
2200-0100	9545	9545	
	6185	6185	
1100-1500	11715	11715	a) 1130-1200
	9760	9760	1430-1600
	6110	6110	
		1580a	
To Indonesia			
2200-0100	9545	11760	a) 2200-2300
	6095b	6095a	b) 2300-2400
1100-1500	6110	7165	
To Oceania			
2200-2400	21610	21610	
	17820	17820	
	15290	15290	
1100-1400	9730	9730	
	5955	5955	
To Philippines/Malaysia			
1100-1500	7165	7165	
To Latin America			
0000-0200	15205	15205	
	11740	11740	
	9640	9640	
	6130	6130	

PROGRAMS IN OTHER LANGUAGES

A=Nov-Feb; B=March-April

TO EUROPE

Albanian	A	B
1600-1630	15195	15195
	11915	9510
	5965	5965
1900-1930	11915	11915
	9770	9510
	9540	5965
	5965	
Armenian		
1500-1600	15195	15195
	9715	11830
	9680	11805
	7150	9680
Bulgarian		
0400-0415	9615	9615
	7230	7260
	6080	6080
	1196	1196
0515-0530	9615	9615
	7230	7220
	6080	6080
	1196	1196
1830-1900	11915	15195
	9735	11915
	5965	9505
		5965
2000-2030	11915	11915
	9770	9770
	9540	5965
	5965	
Czech-Slovak		
0430-0445	9615	9615
	7230	7260
	6080	6080
	1196	1196
0530-0545	9615	9615
	7230	7220
	6080	6080
	1196	1196
1630-1700	9530	15270
	6160	9735
	6040	7180
	1196	6160
2000-2100	9530	11955
	7180	9530
	6160	7180
		6160

Estonian	A	B
1430-1500	15270	15270
	11960	11960
	9620	9620
	7165	
1530-1600	11960	15270
	9620	11960
	7165	9620
Georgian		
1400-1500	15195	15195
	9715	11805
	9680	9680
	7295	
Greek		
0730-0800	17705	17705
	15310	15310
	9770	
1800-1830	11915	15195
	9735	11915
	5965	5965
Hungarian		
0415-0430	9615	9615
	7230	7260
	6080	6080
	1196	1196
0600-0615	9760	9550
	7210	7220
	6060	6060
1730-1900	11945	15270
	9530	9735
	6160	7180
	1196	6160
		1196
2100-2130	9530	11955
	7180	9530
	6160	7180
		6160
Latvian		
1400-1430	15270	15270
	11960	11960
	9620	9620
	7165	
1600-1630	9530	15270
	7165	9735
	6160	9620
		6160

Lithuanian	A	B
1500-1530	15270	15270
	11960	11960
	9620	9620
	7165	
1700-1730	11905	15270
	9530	9735
	6160	7180
		6160
Polish		
0445-0500 }	9615	9615
0545-0600 }	7230	7260
	6080	6080
	1196	1196
1900-2000	9530	15270
	7180	9750
	6160	9530
	1196	7180
		6160
		1196
2130-2200	9530	11955
	7180	9530
	6160	7180
2200-2300	1196	1196
Portuguese		
2130-2230	9770	15395
	7205	11915
	6195	9770
		7205
		6195
Romanian		
1700-1800	15195	15195
	11915	11915
	5965	5965
	791	791
1930-2000	11915	11915
	9770	9770
	9540	5965
	5965	791
	791	
Russian		
0300-0500	9715	9715
	7170	9540
	6160	7240
	6150	6160
	6090	6150
		6090
1200-1400	15205	15300
	11840	15205
	11830	15160
	11805	11840
	9565	11830
	9510	11805
	7120	9565
		9510
1500-1800	11715	15205c
	7270	11840
a) 1600-1800	6150	11805a
c) 1500-1700	6140	11710
	6095	9680a
		9660
		7270
		6150
1800-2200	7270	11710
	7205c	9860c
b) 2000-2200	6150	9620b
c) 1800-2100	6140	7205c
	6095	6150
		6140
		6095b
Serbo-Croat		
2030-2130	11915	11915
	9770	9770
	9540	9510
	5965	5965
	791	791
Slovene		
0500-0515	9615	9615
	7220	7220
	6080	6080
	1196	1196
0615-0630	9550	9550

Slovene	A	B
0615-0630	7220	7220
	6060	6060
Ukrainian		
0200-0400	9760	9760
	7190	7190
	6180	6180
	6070	6070
	791	
1600-1800	11760	15305
	9735	11760
a) 1600-1730	7155b	7290
b) 1730-1800	7150a	5955
	6060	
	5955	
Uzbek		
1400-1500	11850	15300
	11840	15205
	11830	15160
	9660	11840
	7120	11830
		9660

TO AFRICA

Arabic	A	B
0530-0600	9700	9555
	7170	7170
	6160	6160
	6095	6095
	6015	6015
0730-0800	9555	9555
	7160	7160
	6160	6160
	6095	6095
	5965	5965
1700-2100	7290a	7290a
a) 1800-2100	6110	6110
	6015	6015
French		
0600-0700	11805	11805
(Mon-Sat)	9750	9750
	9555	9565
	7175	9555
	7160	7175
	6180	7160
	6160	6180
	6095	6160
	5965	6095
		5965
1830-2230	17855	17855
	15315	17800
b) 1830-1900	7135	15180c
c) 1830-2100	6060	15165d
d) 2100-2230		11840
e) 1900-2230		7160e
		7155b
		7135
Portuguese		
1730-1830	17855	17855
	15315	15315
	11865	11865
Swahili		
1630-1730	17855	17855
	15315	15315
	11865	11865

TO NEAR AND MIDDLE EAST

Arabic		
0400-0600	7110	7110
	5965	5965
	1259	1259
1700-2100	6030	6030
	6015	6015
	1259	1259
Turkish		
1630-1700	15195	15195
	11915	11915
	6015	6015
	5965	5965
	1259	1259

TO SOUTH ASIA

Bengali	A	B
1600-1700	9625	9625
	7210	7210
	5955	5955
	1580	1580
Hindi		
0130-0200	17800	17800
	15345	15405
	15185	15185
	11815	11815
1530-1600	9625	15260
	7205	11740
	5955	9700
		9625
		7205
		6185
		5955
Urdu		
0200-0230	9740	17800
	9650	15405
	7170	11815
	5985	9740
		9650
		7170
		5985
1430-1500	15260	15260
	9700	11850
	7285	9700
	6170	7230

TO FAR EAST

Burmese		
1400-1500	15250	15250
	9725	9725
	5955	5955
Chinese		
2200-0030	11930	11930
	9770	9770
	9560	9560
	7255	7255
	7135	7135
1000-1600	11965a	15410a
a) 1000-1300	9555	11965a
b) 1100-1600	7275b	9555
c) 1200-1600	7265d	7275
d) 1400-1600	7255f	7255
f) 1000-1400	7155	7155
g) 1330-1600	6160	6160g
h) 1200-1330	6075g	1178h
1400-1600	1178c	
Indonesian		
2230-2330	11805	11805
	9650	9650
	7200	7200
1100-1200	15250	15250
	11930	11930
	9630	9630
1430-1530	11930	11930
	9630	9630
	7205	7205
Khmer		
1330-1430	11930	11930
	9630	9630
	7205	7205
Korean		
2130-2200	11830	11830
	9560	9650
	7160	7255
	6110	7160
	6075	6110
		6075
2230-2300	7160	7160

Korea	A	B
1330-1400	9725	9725
	7255	7255
	1178	1178
Lao		
1200-1300	15250	15250
	11930	11930
	9630	9630
	1580	1580
Russian		
0800-1000	15345	15410
	11965	15345
	11930	15250
	11865	11965
	9630	11930
	9555	9630
	7155	9555
1000-1100	15345	15345
	11715	11715
	9630	9630
Thai		
2230-2330	11880	11880
	9605	9605
	7275	7275
	6110	6110
2330-2400	11965	11965
	9650	9650
	6110	6110
Vietnamese		
1300-1500	9530	11895
	7240	9530
	7190	7240
	6020	6020
	1140	1140

TO LATIN AMERICA

OAS*		
2345-0030	11830	11830
	9650	9640
	6040	6040

*) in Spanish, Portuguese or French.

Portuguese		
1000-1100	17830 (A)	17830 (A)
(A=Atlantic Relay)	15195 (A)	15195 (A)
	11730	11730
	9765	9765
2300-0100	15240	15240
	11955	11955
	9670	9670
Spanish		
1130-1400	17830 (A)	17830 (A)
	15235	15235
	15195 (A)	15195 (A)
	11890	11890
	9525	9525
	1180	
0000-0330	15400	15400
	11895	11895
	9725	9725
	9670	9670
	6190	6190
	1180	1180

N. English: 0100, 0200, 0300, 0400, 0500, 0600, 1100, 1200, 1300, 1500, 1600, 1700, 1730, 1900, 2000. **N. in Special English:** 1400(Far East, So. Asia), 1600(So. Asia), 1800, 2000(Europe & Middle East).
VOA-Magazine: Mon-Fri 1330, 1530, 1930 – **Music USA:** 1215, 1430, 1615, 2015 – **Dateline:** Mon-Thurs 1130, 1730, 1830.

AMERICAN FORCES RADIO AND TELEVISION SERVICE.

ADDR: American Forces Radio and Television Service, Office of Information for the Armed Forces OASD (PA), Washington DC 20305. This office exercises over-all policy of the American Forces Radio and Television Service (AFRTS). The mission of AFRTS is to keep US service personnel overseas informed on current events. **All broadcasts are in English.** News, sports, public affairs and other timely information is beamed overseas by satellite, undersea cable and shortwave. The SW tr's primarily serve ships at sea, while land based stations are primarily served by satellite and landlines. Programs are derived directly from the US commercial radio networks and are broadcast from Washington DC by AFRTS-W.

Radio entertainment programs are transcribed or taped and television programs are videotaped or kinescoped and shipped to the overseas stations by the American Forces Radio and Television Service, Los Angeles, California (AFRTS-LA).

L.P: Chief, Directorate for Electronic Media: Robert Cranston.

TO FAR EAST/PACIFIC

Call	kHz	Beam	H. of tr.
Phil-2	5995	(255°)	1200-0030
DX-4	6095	(306°)	0800-1500
DX-5	9700	(306°)	0500-1630
DX-1	11805	(307°)	0400-0800
		(307°)	1500-1630
Phil-1	11840	(260°)	0030-1200
DX-4	15330	(307°)	2130-0500
DX-5	17765	(306°)	2130-0400

TO EUROPE/AFRICA

Call	kHz	Beam	H. of tr.
GA-4	11790	(82°)	1800-2300
BY-2	15330	(57°)	1730-2300
GA-4	15430	(45°)	1330-1800
GA-7	15430	(67°)	1330-2300

TO CARIBBEAN/ANTARCTICA

Call	kHz	Beam	H. of tr.
BY-2	6030	(168°)	0030-1130
BY-3	9755	(168°)	0600-1300
BY-3	9755	(168°)	2300-0130
BY-1	15330	(168°)	1230-2330

N.B: The above are the normal daily schedules. In case of sports and special events schedules may be extended to a 24h service to all areas.

N: On the h and half h.

ANN: "This is the American Forces Radio and Television Service" – **V.** by QSL-card – **PUB:** Programme schedule published annually.

FAMILY RADIO NETWORK INC.

ADDR: 290 Hegenberger Road, Oakland, Calif. 94621. **Te:** (415)568-6200.
L.P: Pres: Harold Camping. Prgr.Mgr: Gabriel Otero. St.Mgr(Scituate): Arthur R. Thompson. Dir. International Rel: Richard H. Homeres.
STATIONS: Scituate (Mass) (G.C: 70.44W/42.13N): 3×100kW & 2×50kW SW-tr's.

kHz	kW	kHz	kW	kHz	kW
5985	100	11720	50	15150	100
6155	100	11805	100	15160	100
6160	100	11855	100/50	15215	50/100
9525	50	11875	100	15440	50/100
9555	100/50	11885	100	17730	50
9690	100	11935	100	17845	50/100
9715	50/100	11945	100	17865	50/100
9725	100	15110	100	17875	50/100
11705	100	15130	50/100		

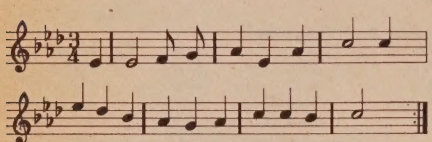
To Europe/No. Africa

English	kHz
1230-1600 (Sun)	15110,15130 17865
1600-1700	11805,15150 17845
1700-1800	11805,15130 15150
1800-2100	11805,15130 17845
2100-2200	11805
2200-2300	11885
German	
1600-1700	15440,17865
1800-1900	9690,15440
1900-2000	9690,11875
French	
1730-1800	15440,17845
Russian	
2000-2100	9690,11875
Spanish	
2100-2200	9690,11875
2200-2300	6160,9690
Arabic	
1700-1730	15440,17865

To So. America & Caribbean

English	kHz
0100-0500	6155
German	
0000-0100	11720
Spanish	
1300-1600 (Sun)	15150,15440 17730
2100-2300	15130,17845
2300-0100	11855,11885 9525,9725
0100-0500	5985,9525 9555,9715
Russian	
2300-2400	11720

N: English: 1300(Sun), 1400(Sun), 1600(Sun), 1700, 1800(W), 1900, 2000, 2100(W), 2200(exc. Sat).
INT-SIG: To God be the Glory.



ANN: "This is Your Family Radio, International Broadcast Station WYFR, Scituate, Massachusetts, the United States of America with programs designed for your educational, cultural and inspirational enjoyment". "Esta es Family Radio WYFR con el Sonido de la Nueva Vida transmitiendo desde Scituate, Massachusetts, y con estudios de produccion ubicados en Oakland, California Estados Unidos de Norte-America" – **V.** by QSL-card from all areas. Reports & Monitors wanted – **PUB:** Prgr. schedule and Newsletter.

INTERNATIONAL BROADCAST STATION KGEI

(La Voz de la Amistad)
ADDR: Friendship Station, Redwood City, Calif. 94063.
Te: (415)5917374. **Cable:** Febcom Rdcy.
L.P: St.Mgr: J.R. Bowman. Dir.Tec: J.L. Brooks.
STATIONS (Redwood City): G.C: 122.14W/37.33N.

kHz	kW	kHz	kW	kHz	kW
5980	50/250	11720	50	15355	250
9615	50/250	15280	50		

Alternate freqs: 9520, 11905kHz.
N.B: Freqs in bold use 250kW.

LATIN AMERICAN SERVICE. (Nov-Feb): (Beam 126°). **Spanish:** 2130-0115 on 15280kHz, 0115-1400 on 9615kHz. **German & Spanish:** 2330-0100 on **15355kHz,** 0100-0200 on **11720kHz.**

FAR EAST SERVICE (Nov-Feb): 0700-1400 on **5980kHz** (beam 306°). **English:** 0700-0800 & 1000-1100. **Russian:** 0900-1000 & 1200-1300. **Japanese:** 0800-0900 & 1100-1200. **Chinese** (Mandarin: 1200-1400.
N: On the h (10 mins), and on the half h (5 mins).

March/April 1977 (tentative schedule): **Spanish** 2130-0230 on 15280kHz, 0230-1400 on 9615kHz. **German** and **Spanish** 2330-0200 on **15355kHz** – Far East Sce: no changes.

ANN: E (sign-on): "This is the Voice of Friendship, International Broadc. st. KGEI, San Francisco, Calif. the United States of America, owned and operated by the Far East Broadc. Company on a freq.—of . . . KGEI is dedicated to the purpose of promoting goodwill, better understanding and friendship amongst the peoples of the Americas". Sp: "La Voz de la Amistad" – **INT-SIG:** Sign off with English ann – **V.** by QSL-card (send 2 IRC for surface mail, 4 IRC for airmail).

WORLD INTERNATIONAL BROADCASTERS (WINB)

ADDR: P.O. Box 88, Red Lion, Penna. 17356.
L.P: St.Mgr: John H. Norris. Dir.Tec: Fred W. Wise.
STATIONS (G.C: 76.34W/39.5N): 50kW.
11775, 15185, 15305, 15355, 15375, 17875kHz.
D.PRGR. in English to We. Europe/Mediterranean/No. Africa(mainly religious prgr's 1700-1830 on 15375kHz. 1830-2000 on 15355kHz, 2000-2200 on 11775kHz.
March/April (tentative schedule): 1700-1930 on 17875kHz, 1930-2100 on 15305kHz, 2100-2245 on 15185kHz.
ANN: "You are listening to World International Broadcasters, R. Station WINB, broadc. from Red Lion, Pennsylvania, United States of America, on a freq. of . . . megacycles, with transmitting power of 50.000 watts".
V. by QSL-card and prgr schedule. Reports wanted.
WINB is a comm. st. which purpose is to promote the God of the Bible and country.

NATIONAL ASSOCIATION OF BROADCASTERS

ADDR: 1171 N. Street N.W, Washington, D.C. 20036.
L.P: Chmn: Wilson C. Wearn. Pres: V.T. Wasilewski Exec Vice Pres and Gen.Mgr: John B. Summer. Secr. Treasurer: John G. Kinzer.
Purpose: The purpose of the Association is to foster and promote the development of the arts of aural and visual broadc. in all its forms to protect its members in every lawful and proper manner from injustices; to do all things necessary and proper to encourage customs and practices which will strengthen and maintain the broadc. industry to the end that it may best serve the public.

COMMERCIAL STATIONS

Within the United States, the power of a radio station is often not as important to listeners as its programming. In most major cities, radio stations concentrate their programming to appeal to a given segment of the population and there's a type of programming available to appeal to almost every listening taste. There are stations that devote their entire broadcast day to news, others that devote their time to talk programs. In most cities, the station with the largest listening audience is that station which aims its programming to teenagers and young adults – primarily the people who buy single 45 rpm records. These are mostly rock'n'roll records and the stations base their programming on Billboard Magazine's Hot 100 Chart, which lists the top-selling single 45 rpm records in the nation. Other radio stations program music to appeal to young adults and adults and their music is selected from Billboard's top 40 Easy Listening Chart. These "good music" stations usually have the major part of the radio listening audience during morning and early afternoon listening hours before teenagers get out of school. There are also radio stations that program nothing but country music, others that program Latin American music, others that feature rhythm and blues (aimed primarily at Negro listeners), many that program religious services and religious music, a few that feature mostly jazz, a few that program "background" – or soft relaxing – music, and a good many that program nothing but classical music.

Medium Waves. Stations less 10kW not mentioned. Times in **GMT** (except for "Daytime"which refers to local sunrise to sunset).
*=Presunrise Service Authority. A daytime station with a PSA may operate from 06.00 local time to local sunrise with low power when local sunrise occurs later than 06.00.
OBS: Calendar days refer to local time – St. 188) Gov.
Powers: Where a second power is mentioned this refers to early morning/late afternoon operation for daytime st's.
N.B: Hawaii and Alaska are listed separately.

"Listen to the world"

a new section, full of articles – is now incorporated in the WRTH – You get more value for money!

LET THE EARTH HEAR HIS VOICE

WYFR

The International Voice of Family Radio

"That all the people of the earth may know that the Lord is God, and that there is none else." I Kings 8:60

Write for free Program Schedule:

WYFR
FAMILY STATIONS, Inc.
290 Hegenberger Road
Oakland, California 94621
United States of America

Studios — Oakland, California
Transmitters — Scituate, Massachusetts
United States of America

	Call	kW	H. of tr.
	540kHz		
1)	WGTO	50	Daytime*
	640kHz		
2)	KFI	50	24h
	650kHz		
3)	WSM	50	24h
	660kHz		
4)	WNBC	50	24h
5)	WESC	10/	
		5	Daytime*
6)	KSKY	10	Daytime*
	670kHz		
7)	WMAQ	50	24h
8)	KBOI	50/	
		25	1200(Sun 1330)-0710
	680kHz		
9)	KKYX	50/	
		10	24h
10)	KNBR	50	24h
11)	WRNG	25	Daytime*
12)	WCBM	10/	
		5	24h
13)	WRKO	50	24h
14)	WPTF	50	24h
15)	WMPS	10/	
		5	24h
16)	WCAW	50/	
		0.25	1100-0600
17)	WDBC	10/	
		1	W 1027-0500, Sun 1200-0400
	690kHz		
18)	WVOK	50	Daytime
19)	WAPE	50/	
		10	24h
20)	KGGF	10/	
		5	1145(Sun 1200)-0600
21)	KHEY	10	24h
22)	WZAP	10	Daytime*
23)	WTIX	10/	
		5	24h
	700kHz		
24)	WLW	50	24h
	710kHz		
25)	KMPC	50/	
		10	24h
26)	WGBS	50	24h
27)	KEEL	50/	
		5	24h
28)	WHB	10/	
		5	24h
29)	WOR	50	24h
30)	KGNC	10	24h
31)	KIRO	50	24h
	720kHz		
32)	WGN	50	24h
33)	KDWN	50/	
		10	1400-0800
	740kHz		
34)	WBAM	50	Daytime
35)	KBRT	10	Daytime
36)	KCBS	50	24h
37)	WPAQ	10/	
		1	Daytime
38)	KRMG	50/	
		25	24h
39)	KTRH	50	0958(Sun 1200)-0600
	750kHz		
40)	WSB	50	24h
41)	KMMJ	10	Daytime*
42)	KXL	50	1400-Sunset
	760kHz		
43)	WJR	50	24h
	770kHz		
44)	KOB	50	24h
45)	WABC	50	24h
	780kHz		
46)	WBBM	50	24h
47)	KCRL	50	24h
	810kHz		
48)	KGO	50	24h
49)	KCMO	50/	
		10	24h
50)	WGY	50	24h
51)	WSJC	50	1000(Sun 1100)-0510
	820kHz		
52)	WBAP	50	24h
	830kHz		
53)	WCCO	50	24h
	840kHz		
54)	WHAS	50	24h
	850kHz		
55)	WYDE	50/	
		1	1045-0710
56)	KOA	50	24h
57)	WHDH	50	24h
58)	WMAG	10	Daytime
59)	WIVK	50	Daytime*
60)	WKIX	10/	
		5	24h
61)	WJW	10/	
		5	24h
62)	WJAC	10	W 1030-0630, Sun 1230-0500
63)	KTAC	10/	
		1	24h
64)	WWJC	10	Daytime
65)	KEYH	10	Daytime*
	860kHz		
66)	KTRB	10/	
		1	24h
67)	KOAM	10/	
		5	1100-0600
68)	WOAY	10/	
		5	Daytime
69)	WTEL	10	Daytime
	870kHz		
70)	WWL	50	24h
71)	WKAR	10	Daytime
	880kHz		
72)	WCBS	50	24h
73)	KRVN	50	1000(Sun 1200)-0600
	890kHz		
74)	WLS	50	24h
	940kHz		
75)	KFRE	50	24h
76)	WINZ	50/	
		10	24h
77)	WMAZ	50/	
		10	1030(Sun 1200)-0600
78)	KBRE	10	Daytime*
79)	WCPC	50/	
		0.25	Daytime*
80)	KIOA	10/5	24h
81)	WYLD	10/	
		0.5	24h
82)	WFNC	50/	
		1	1030(Sun 1100)-0500
	990kHz		
83)	KTKT	10/	
		1	24h
84)	KWAM	10	Daytime
85)	WHOO	50/	
		5	24h
86)	WIBG	50/	
		10	24h
87)	WLKW	50	Daytime
88)	WNOX	10	24h
89)	KNIN	10/	
		1	1130(Sun 1200)-0630

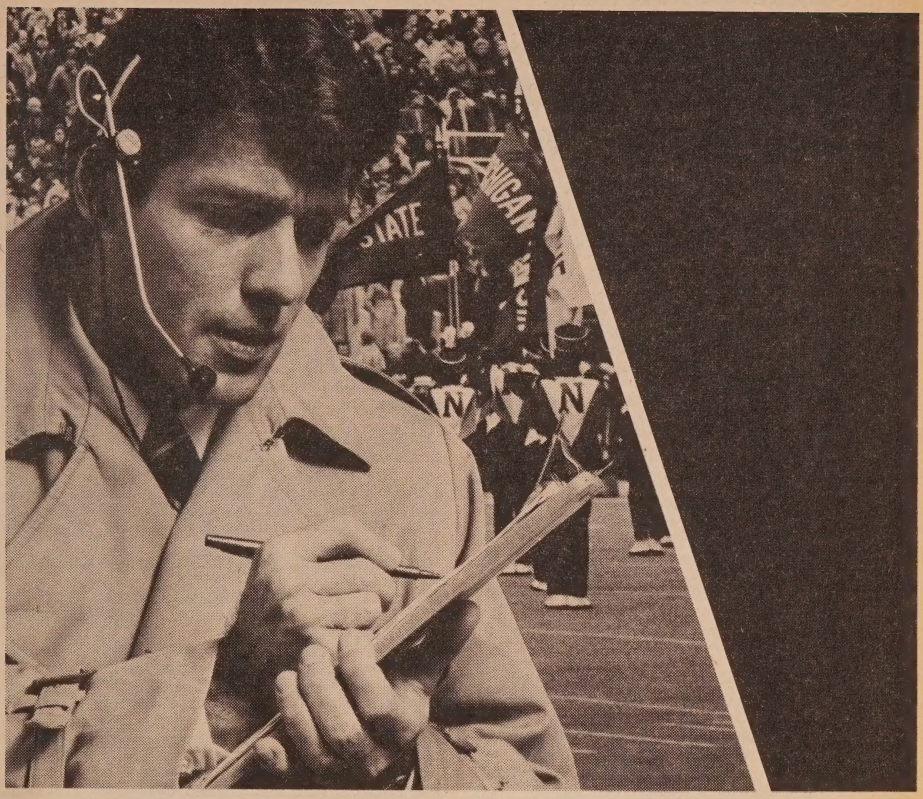
	Call	kW	H. of tr.
	1000kHz		
90)	WVOV	10/5	Daytime
91)	WCFL	50	24h
92)	WKYB	10/5	Daytime
93)	KXRB	10	Daytime*
94)	KOMO	50	24h
95)	KKIM	10	Daytime*
	1010kHz		
96)	KLRA	10/5	24h
97)	KIQI	10	Daytime
98)	WINQ	50	Daytime
99)	WGUN	50/10	Daytime
100)	WMOX	10/1	24h
101)	KXEN	50	Daytime
102)	WINS	50	24h
103)	WFGW	50/10	Daytime
104)	KKIK	10	Daytime
105)	WBIX	10	Daytime
	1020kHz		
106)	KGBS	50	1400-Sunset + Mon 0500-1000
107)	KBCQ	50	1200-0700
108)	KDKA	50	1000-0500 (Sat, Sun 24h)
	1030kHz		
109)	WBZ	50	24h
110)	KCTA	50	Daytime
111)	KTWO	50	24h
	1040kHz		
112)	WHO	50	24h
	1050kHz		
113)	WHN	50	24h
	1060kHz		
114)	KPAY	10	24h
115)	WNOE	50/5	24h
116)	WRMF	10/5	24h
117)	KYW	50	24h
118)	KLMO	10	Daytime*
119)	KGFX	10/1	
120)	KRSP	10	Daytime*
121)	KAMA	10	Daytime*
	1070kHz		
122)	WCIR	10	Daytime*
123)	WAPI	50/5	1100-0608
124)	WFLI	50/1	24h
125)	KNX	50	24h
126)	WANM	10	Daytime
127)	WIBC	50/10	24h
128)	KFDI	10/1	24h
129)	WNCT	10	24h
130)	WDIA	50/5	24h
131)	WTSO	10/5	24h
132)	WKOK	10	1100-0500
133)	WHYZ	50	Daytime*
134)	KENR	10/5	24h
135)	KERR	25/1	
136)	KSCO	10/5	W 1330-0805 Sun 1400-0708
137)	WTIC	50	24h
138)	KWJJ	50/10	24h
139)	KRLD	50	24h
140)	WCOB	10	Daytime
141)	WEEP	50/25	Daytime*
142)	WVCG	10/0.5	24h
143)	WKLO	10/124	
	1090kHz		
144)	KAAY	50	24h
145)	KAAT	50	Daytime*
146)	KING	50	24h
147)	KNCR	10	Daytime
148)	WBAL	50	24h
149)	WCMG	10	Daytime*
	1100kHz		
150)	KFAX	50/1	1300-Sunset+ 0600-1100
151)	KREX	50/10	W 1300-0700 Sun 1400-0600
152)	WHLI	10	Daytime
153)	WWWE	50	24h
	1110kHz		
147a)	KAKA	10	Daytime
154)	KRLA	50/10	24h
155)	WQYK	10	Daytime*
156)	KFAB	50	24h
157)	KBND	10/1	W 1400-0700 Sun 1500-0600
158)	WBT	50	24h
159)	WBCA	10	Daytime
160)	WJML	10	Daytime
161)	WZAM	50	Daytime
	1120kHz		
162)	KMOX	50	24h
163)	KPNW	50	24h
	1130kHz		
164)	KSDO	50/10	24h
165)	KWKH	50	24h
166)	KWBY	10	Daytime
167)	KBMR	10	Daytime*
168)	WCAR	50/10	24h
169)	WDGY	50/25	24h
170)	WNEW	50	24h
171)	WISN	50/10	24h
172)	WMGA	10/0.25	1030-0405
173)	WNRJ	10	Daytime*
	1140kHz		
174)	KRAK	50	24h
175)	WQBA	10/5	24h
176)	KGEM	10	24h
177)	KSOO	10/5	1100-0700
178)	WRVA	50	24h
179)	KLUC	10	Daytime*
	1160kHz		
180)	WJJD	50	Daytime* + early even.
181)	KSL	50	24h
	1170kHz		
182)	WCOV	10/1	24h
183)	KCBQ	50/5	24h
184)	KVOO	50	24h
185)	WWVA	50	24h
186)	KLOK	50/5	24h
	1180kHz		
187)	WHAM	50	24h
188)	"VOA"	50	
189)	KOFI	10	1300-0705
	1190kHz		
190)	KEX	50	24h
191)	KLIF	50/5	24h
192)	WANN	10	Daytime
193)	WLIB	10	Daytime* +1h after sunset
194)	WOWO	50	24h
	1200kHz		
195)	WOAI	50	24h
	1210kHz		
196)	WCAU	50	24h
197)	WKNX	10	Daytime*
198)	KGYN	10	1100(Sun 1300)-0500
	1220kHz		
199)	WGAR	50	24h
	1500kHz		
200)	KXRX	10/5	24h
201)	WTOP	50	1000(Sat 1030)-0600 (Sun 0500)
202)	WDEE	50/5	24h
203)	KSTP	50	24h
204)	KROQ	10/1	24h
205)	WKBX	10/1	Daytime
	1510kHz		
206)	KDKB	10	Daytime*
207)	WNLC	10/5	24h
208)	WLAC	50	24h
209)	KGA	50	24h
210)	WAUK	10	Daytime*
211)	KSOM	10/1	24h
212)	WMEX	50/5	24h
213)	WRAN	10/0.5	24h
	1520kHz		
214)	KACY	50/1	24h
215)	WKBW	50	24h
216)	KOMA	50	24h
217)	KYXI	50/10	24h
218)	KXKW	10/0.5	1125-0600
219)	KOLM	10/1	Daytime*
220)	WKJR	10	Daytime
	1530kHz		
221)	WDJZ	10	Daytime
222)	KFBK	50	24h
223)	WCKY	50	24h
224)	KGBT	50/10	1100(Sun 1300)-0600
225)	WITI	10	Daytime
226)	WRPM	10/1	Daytime*
227)	KNIE	10/1	0705
228)	WIAD	50	Daytime
229)	WPNO	10	Daytime
	1540kHz		
230)	KRXV	50/1	24h
231)	KPOL	50/10	24h
232)	KXEL	50	24h
233)	WPTR	50	24h
234)	WRCP	50	Daytime*
235)	KASA	10	Daytime*
236)	WRGM	10	Daytime
	1550kHz		
237)	KKHI	10	24h
238)	KRGO	10	Daytime*
239)	WRHC	10	Daytime*
240)	WMOO	50	Daytime*
241)	KQXI	10	Daytime*
242)	KOKA	10/0.5	24h
234)	WBSC	10/5	W 1100-0500 Sun 1230-sunset
244)	WOKJ	50/10	24h
245)	WYOU	10	Daytime*
246)	WYNX	10	Daytime*
247)	KUAT	50	Daytime
248)	WNTN	10	Daytime
249)	WKBA	10	Daytime
250)	KOBY	10	Daytime
	1560kHz		
251)	WWGM	10	Daytime*
252)	KPMC	10	1345(Sat 1400, Sun 1500)-0805
253)	WQXR	50	1100(Sun 1200)-0600
254)	WDXR	10/124h	
255)	WAGL	10/0.5	Daytime*
256)	WTRQ	10	Daytime
257)	KQYX	10	Daytime
	1580kHz		
258)	KDAY	50	24h
259)	KNIX	10	Daytime
260)	WAXU	10	Daytime
261)	WSUF	10/5	Daytime
262)	WPGC	10	Daytime
263)	WSRF	10/5	24h

Addresses and other information:
G.M=General Manager; P.D=Program Director; C.E=Chief Engineer; S.M=Station Manager; Op's=Operations. N-1=News on the h; N-2=News on the half h; N-3=News on the h and half h; MoR=Middle-of-the-Road music; C&W=Country & Western music; RR=Rock'n'Roll; RB=Rhythm & Blues; Cont=Contemporary (Current hits); Pop=popular.

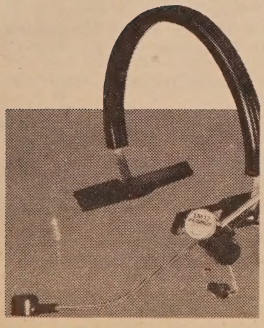
Verifications: The details of the verification policies often vary and thus are omitted here. Nearly all stations will verify correct reports of reception over exceptional distances. Rp is often appreciated if in form of mint stamps.

1) Box 128, Cypress Gardens, Fla.33880 – Mgr: L. Barham. P.D: J. Terry. C.E: P. Titchenal – Cont. MoR. **N**-1.
2) Box 74607, Los Angeles, Calif.90004 – G.M: J.W. Wesley, Jr. P.D: E.B. Nevins. C.E: B. Koval – MoR, Cont. Pop. **N**-3. **V.** Exc.dist.
3) Box 100, Nashville, Tenn.37202 – G.M: Len Hensel. P.D: Al Voecks. C.E: Lee Whitehurst – MoR (day), C&W (night). **N**-3.
4) 30 Rockefeller Plaza, New York, N.Y.10020 – G.M: P.B. Bascom. P.D: J.C. Lund. C.E: Lou Bruno – MoR. **N**-2.
5) Box 2447, Greenville, S.C.29602 – G.M: J.Y. Davenport. P.D: Bob Hooper. C.E: Don Gowens – C&W.
6) Hotel Stoneleigh, 2927 Maple Ave, Dallas, Tex.75201 – G.M: A. Bell. P.D: B. Simmons. C.E: M.M. King – Rlg.
7) Merchandise Mart, Chicago, Ill.60654 – G.M: C. H. Warner. P.D: L. Wilkerson. C.E: H. Whitteberry – Cont. (Silent Mon 0700-1100). **N**-1.
8) Box 1280, Boise, Idaho 83701 – G.M: C.H. Wilson. P.D: Lee Chabre. C.E: M. Daniel – News, MoR, **Basque:** Sun 0300-0400. **N:** Local at: 57, CBS **N**-1.
9) 8022 Bandera Rd, San Antonio, Tex.78228 – G.M: R.F. Marcellan. P.D: Bill Rohde. C.E: E. Pryor – C&W.
10) Fox Plaza, San Francisco, Calif.94102 – G.M: W.W. Dwyer. P.D: A. Hotlen. C.E: J. Cameron – MoR, **N**-3.
11) 3954 Peachtree Rd NE, Atlanta, Ga.30319 – G.M: A.R. MacMillan. P.D: H. Davey. C.E: A.G. Swan – News, conversation.
12) 68 Radio Plaza, Owings Mills, Md.21117 – G.M: H.K. Deutsch. P.D: B. Holberg. C.E: Sam Houston – MoR. **N:** hourly.
13) RKO General Bldg, Government Center, Boston, Mass.02114 – G.M: J. Hobbs. P.D: P. Kirby. C.E: G.J. Capalbo – RR.
14) WPTF Bldg, 410 S. Salisbury St, Raleigh, N.C.27602 – G.M: C.V. Venters, Jr. P.D: Chas. B. Stegall. C.E: L. Parrish – MoR. **N:** 1300, 2200, 2300, 0300. **V.**Rp.
15) Box 3584, Memphis, Tenn.38103 – G.M: H.W. Hudson. P.D: Roy Mack. C.E: L.S. Stevens – Cont.
16) Box 4318, Charleston, W.Va.25304 – Pres: E.M. Johnson. G.M: Paul Miles. P.D: Tom Miller. C.E: C. Drennen – C&W.
17) Box 680, Escanaba, Mich.49829 – G.M: G. Kauffman. P.D: Joe Demay. C.E: R. Haslow – MoR, C&W. **N:** 1300, 1700, 2230.
18) Box 1926, Birmingham, Ala.35201 – G.M.&P.D; Dan M. Brennan. C.E: H. Copeland – Cont. **N**-2.
19) Box 486, Orange Park, Fla.32073 – G.M: J.J. McCluskey. P.D: J. Long. C.E: Art Dellinger – Top 40.
20) Box 853, Coffeyville, Kans.67337 – G.M: R.L. Pratt. S.M: G.W. Miller. P.D: R. Mcbride. C.E: D.W. Gillette – MoR. **N:** at :55.
21) 2419 N. Piedras, El Paso, Tex.79930 – G.M: J.R. Phillips. P.D: C. Russell. C.E: H. Rand – C&W. **N**-1.
22) Box 1038, Bristol, Va.24201 – Mgr: R. Al Morris. C.E: J. Faniola – C&W. **N**-3.
23) 332 Carondelet St, New Orleans, La.70130 – G.M: F. Berthelson. P.D: Bob Mitchell. C.E: C. Roberts – Top 40. (Silent Mon 0600-1200).
24) 140 W. 9th St, Cincinnati, Ohio 45202 – G.M: C.K. Murdock. P.D; M. O'Shea. C.E: J. Hampton – MoR. **N**-3.
25) 5858 Sunset Blvd, Los Angeles, Calif.90028 – G.M: S.L. Spero. P.D; M. Blinoff. C.E: Tom Crosnoe – Sports, MoR, cont. Adult pop. (Silent Mon 0900-1100). **N**-3.
26) 710 Brickell Ave, Miami, Fla.33131 – G.M: D.R. Hamlin. P.D: Lee Rogers. C.E: R.H. Walton – Cont. pop, sports. (Silent Mon 0630-1000). **N**-1.
27) Box 7, Shreveport, La.71120 – G.M: Marie Gifford. P.D: L. Ryan. C.E: R. Johnson – Cont. **N**-1.
28) 106 W. 14th St, Kansas City, Mo.64105 – G.M: J.H. Erwin. P.D: J. Dolan – Pop. **N:** at :55, 1400.
29) 1440 Broadway, New York, N.Y.10018 – G.M: H. Saltzman. P.D: J. McAleer. C.E: O.J. Sather – Talk.
30) Box 710, Amarillo, Tx.79105 – G.M: G. Logan. P.D: J. Dawson. C.E: H. White – MoR. **N**-3.
31) B'cast House, 3rd & Broad Sts, Seattle, Wash.98121 – Mgr: J. Adamson. P.D: N. Woodruff. C.E: D. Hubert – Talk, MoR. **N:** 1330, 2000, 0000. (Silent Mon 0800-1250).
32) 2501 Bradley Place, Chicago, Ill.60618 – G.M: R. Henley. P.D: R.D. Jones. C.E: W.R. Crane – MoR, talk. **N**-3.
33) No. 1 Main St, Las Vegas, Nev.89101 – G.M: A.J. Williams. P.D: C. Griggs. C.E: J. Deangelo – MoR.
34) Box 11411, Montgomery, Ala.36111 – Mgr: C.G. Brennan. C.E: T. Tisdale – Country rock. **N**-1.
35) 7755 Sunset Blvd, Los Angeles, Calif.90046 – G.M: J.L. Dorton. P.D: F. Seiden. C.E: C. Casterline – Btfl. music. **N:** at :55.
36) 1 Embarcadero Center, San Francisco, Calif.94111 – G.M: P.McCoy. C.E: H. Immekys – News only. (Silent Mon 0801-1300).
37) Box 907, Mt. Airy, N.C.27030 – G.M: B. Eubanks. P.D: C. Leonard. C.E: R.D. Epperson – MoR.
38) 1502 S. Boulder, Tulsa, Okla.74119 – G.M: Ron B. Blue. P.D: J. Vaughn. C.E: L. Ballard – MoR.
39) Box 1520, Houston, Tex.77006 – G.M: F. Stewart. S.M: Hal Kemp. C.E: L.A. Mullen – News, talk, sports. **N**-1.
40) 1601 W. Peachtree St. NE, Atlanta, Ga.30309. – G.M: E. Ellis. P.D: G. Fisher. C.E: C.H. Sutton – Sports, cont. **N**-3.
41) Box 1847, Grand Island, Neb.68801 – G.M: Rex H. Lathen. S.M: W. Morton. P.D: R. Lawrence. C.E: M. Shunkwiler – MoR.
42) Box 22106, Portland, Ore.97222 – G.M: Ray Watson. P.D: W. Jordan. C.E: B. Bise – Pop. **N**-1 and Mon-Fri 1400-1750.
43) 2100 Fisher Bldg, Detroit, Mich.48202 – G.M: W.R. James. P.D: C.H. Hahn. C.E: J.P. Begin – MoR, classical. **N**-1.
44) 77 Broadcast Plaza SW, Albuquerque, N.M.87103 – G.M: R.L. Sack. P.D: L. Sherman. C.E: F. Bibeau – MoR. **N**-1.
45) 1330 Ave. of the Americas, New York, N.Y.10019 – G.M: A. Racco. P.D: R. Sklar. C.E: W.H. Lloyd – Cont. hit music.
46) 630 N. McClurg Court, Chicago, Ill.60611 – G.M: William C. O'Donnell. P.D: J. Hultmann. C.E: Jim Durns – All news.
47) Box 7160, Reno, Nev.89510 – S.M: J.E. Elliott. C.E: L. Lewis – Good music, classical music. **N:** at :55.
48) 277 Golden Gate Ave, San Francisco, Calif.94102 – G.M: M. Luckoff. Op's Mgr: J. Johnson. C.E. V. Leverich – Talk, news.
49) 125 E. 31st St, Kansas City, Mo.64108 – G.M: S. Shannon. P.D: Al Casey. C.E: M. Bredemeyer – Adult cont.
50) 1400 Balltown Rd, Schenectady, N.Y.12309 – G.M: j. Delmonico. P.D: L.R. Fowler. C.E: Lou Correia – MoR. **N**-3. (Silent Mon 0500-1000).
51) Box 426, Magee, Miss.39111 – Mgr: Mrs. J.S. Mathis. P.D: M. Mathis. C.E: W. Hearn – MoR, RR, Top 40, RB, C&W. **N**-1.
52) 3900 Barnett St, Fort Worth, Tex.76112 – G.M: W. Potash. P.D: Don Thomson. C.E: E.J. Bates – C&W. **N**-1.
53) 625 2nd Ave. S, Minneapolis, Min.55402 – G.M: P. Lewis. P.D: B. Napier. C.E: C. Kunze – News, sports, MoR. **N:** at :00, :55.
54) Box 1084, Louisville, Ky.40202 – G.M: H. Barr. C.E: B. Hunter – Sports, MoR. (Silent Sun 0730-1100). **N**-1.
55) 2112 So. 11th Ave, Birmingham, Ala.35205 – G.M: L.V. Davidson. P.D: J. Gray. C.E: J.E. Gray – C&W.
56) Box 5012 T.A, Denver, Colo.80217 – G.M: M. Schafbuch. P.D: Bob Rubin. C.E: Lee Edelmaier – News, sports, MoR. **N**-3, 1300, 1900, 2300. (Silent Mon 0701-1200).
57) 441 Stuart St, Boston, Mass.02116 – Pres: D.C. Croniger. P.D: C. Lagrotteria. C.E: P. Hurd – Cont, MoR.
58) Box 1539, Forest, Miss.39074 – G.M: H. Hughes.
59) Box 10207, Knoxville, Tenn.37919 – G.M: James A. Dick. P.D: C. Tomlinson. C.E: M. Jones – Cont, C&W.
60) Box 12526, Raleigh, N.C.27605 – G.M: F. Maruca. P.D: S. Roddy. C.E: T. Tucker – Cont. **N:** at :40.
61) 13461 Ridge Rd, Cleveland, Oh.44133 – Mgr: R. Bremkamp. P.D: Ed Ripley. C.E: W. Fletcher – MoR. (Silent Mon 0505-1000). **N**-1.
62) Box 38, Johnstown, Pa.15907 – G.M: L.E. Pearce. C.E: T.E. Campbell – MoR. **N**-3, at :55.
63) 2000 Tacoma Mall Office Bldg, Tacoma, Wash.98411 – G.M: H.S. Greenberg. P.D: D. Shannon. C.E: T. Denbrook – RR. **N:** at :55.
64) 1120 E. McCuen St, Duluth, Minn.55808 – G.M: R. Elm. P.D: R. Wagner. C.E: J. Talcott – Gospel. **N**-2.
65) 3130 Southwest Freeway, Houston, Tex.77098 – G.M: Don Wigginton. P.D: J. Day. C.E: D. Armstrong – News.
66) Box 3839, Modesto, Calif.95352 – S.M: D. Brown. P.D: Cal Purviance. C.E: C. Price – Talk. **N**-2.
67) Box F, Pittsburg, Kans.66762 – G.M: J.L. Shiverdecker. P.D: T. Marshall. C.E: Joe Patterson – Talk, MoR, C&W, rlg.

68) Box 251, Oak Hill, W.Va.25901 – G.M: R.R. Thomas, Jr. C.E: Don Moye.
69) 4140 Old York Rd, Philadelphia, Pa.19140 – G.M: Q.C. Sturm. C.E: J.L. Layton – Spanish, rlg, ethnic.
70) 1024 No. Rampart St, New Orleans, La.70116 – G.M: J.M. Early. P.D: J. Pela. C.E: H. Burney – Talk, sports, hits, MoR. **N**-2.
71) Michigan State University, East Lansing, Mich.48824 – G.M: R. Estell. P.D: S. Meuche. C.E: W. Winters – News, talk. Spanish 4h/weekly. **N:** 1230, 1700, 2200. **V.** Rp.
72) 51 W. 52nd St, New York, N.Y.10019 – G.M: D.L. Nelson. P.D: L.C. Adler. C.E: E. McDaniel – All news.
73) Box 619, Lexington, Neb.68850 – G.M: M. Brown. P.D: E. Shrum. C.E: R.J. Bitner – C&W. **N**-3.
74) 360 N. Michigan Ave, Chicago, Ill.60601 – G.M: M.G. Greenberg. P.D: J. Gehron. C.E: S. Don Amell – Cont. **N:** at :55.
75) T. 4011 E. Ashlan Ave, Fresno, Calif.93726 – G.M: Tal Jonz. P.D: N. Ryan. C.E: Hal Torosian – MoR.
76) 100 Biscayne Blvd, Miami, Fla.33132 – G.M: R.D. Casper. P.D: J. Emm. C.E: E. Reid – All news.
77) Box 5008, Macon, Ga.31208 – G.M: A.H. Saunders, Jr. C.E: J.D. Lawhon – MoR. **N**-1. **V.** Rp.
78) Box 858, Cedar City, Ut.84720 – G.M: C.F. Hunter. P.D: J.C. Hunter. C.E: R.E. Williams – C&W, MoR, RR.
79) Box 569, Houston, Miss.38851 – G.M: R.H. Mathis. P.D: R. Huffman. C.E: J.B. Skelton, Jr. **N**-1.
80) 215 Keo Way, Des Moines, Iowa 50309 – G.M: Ed Wodka. P.D: P. McLane. C.E: K. Jesness – RR. **N:** at :45.
81) 2906 Tulane Ave, New Orleans, La.70119 – Pres: C.T. Morey. P.D: G. Vinnett. C.E: A. Benjamin – Modern RB. **N:** at :50.
82) Box 5297, Fayetteville, N.C.28303 – G.M: V.W. Dawson. P.D: G.W. Weaver. C.E: J. Sprouse – Cnt.
83) Box 5585, Tucson, Ariz.85703 – G.M: M.G. Schwartz. P.D: R. Collins. C.E: M.P. Brown – Top 40, RR. **N:** at :20, :40. **V.** Rp.
84) Box 12107, Memphis, Tenn.38112 – G.M: E.W. Bie. P.D: Jim Climer. C.E: B. Travis – Rlg.
85) Box 15310, Orlando, Fla.32808 – G.M: W.L. Stakelin. P.D: M. Burger. C.E: Tim Sawyer – Modern country.
86) 117 Ridge Pike, Lafayette Hill, Pa.19444 – G.M: B. Sherwood. P.D: B. Gardner, C. Knapp. C.E: D. Smart – Adult cont. **N:** at :19, :49.
87) 228 Weybosset St, Providence, R.I.02903 – G.M: A. Makkay. P.D: A. Rizzini. C.E. J. Petit – beautiful music.
88) 4400 Whittle Springs Rd, Knoxville, Tenn.37917 – G.M: P.R. Dreyer. P.D: E. Roy. C.E: J.R. Maples – Cont. **N**-3.
89) Box 787, Wichita Falls, Tex.76307 – G.M: Bob H. Walker. P.D: Bob Casey. C.E: E. Bell – Cont.
90) Box 5188, Huntsville, Ala.35805 – G.M: E. Powell. P.D: Ken Maynor. C.E: J. Garrison, Jr. – Cont.
91) 300 N. State St, Chicago, Ill.60610 – Pres: W.A. Lee. S.M: L.M. Witz. P.D: Ron O'Brien. C.E: J. Loupas – Beautiful music.
92) Box 1000, Hemingway, S.C.29554 – G.M.&C.E: D. Hastings. P.D: Hal O'Neal – Cont.
93) 100 North Phillips, Sioux Falls, S.D.57102 – Pres.&C.E: J.L. Breece. G.M: Kay Douglas. P.D: Len Anthony – C&W. **N:** 5 min's at :40.
94) 100-4th Ave. No, Seattle, Wash.98109 – S.M: Jay Ward. P.D: L. Nelson. C.E: R. Mifflin – MoR. (Silent Mon 0800-1300). **N**-1.
95) 301 Los Ranchos NW, Albuquerque, N.M.87107 – Mgr: F.D. Hall – MoR.
96) 1755 Union National Plaza, Little Rock, Ark.72201 – G.M: L. Coe. P.D: M. Heffington. C.E: B. Perry – C&W. **N**-1.
97) 700 Montgomery St, San Francisco, Calif.94108 – G.M: J.J. Gabbert. C.E: M. Lincoln – Adult cont. **N:** at :55.
98) Box 1010, Seffner, Fla.33584 – G.M:&C.E: P. Scott – Rlg. **N:** 1300, 2200, 2300, 0000.
99) Box 67, Decatur, Ga.30031 – S.M.&C.E: B. Akermann. P.D: C.Jones – Rlg.
100) Box 1511, Meridian, Miss.39301 – G.M: Eddie Smith. P.D: S. Holland. C.E: S. Burkes – Top 40. **N**-1, at :55.
101) Box 28, St. Louis, Mo.63166 – G.M: B. Harville, Jr. P.D: Lee Riley. C.E: P. Niekamp – Rlg, gospel. **N**-1.
102) 90 Park Ave, New York, N.Y. 10016 – G.M: B. Scott. P.D: A. Powell. C.E: A. Gold – All news.
103) Box 158, Black Mountain, N.C.28711 – G.M: E. Edwards. P.D: Bob Robinson. C.E: W.L. Clements, Jr. – Rlg.
104) Box 1908, Waco, Tex.76703 – G.M: R.J. Romanski. P.D: Tim Jerigan. C.E: Joe Galloway – C&W.
105) Box 16656, Jacksonville, Fla.32216 – G.M: S. Macri. P.D: R. Hlubek. C.E: T. Thomas – Gospel.
106) 338 So. Western Ave, Los Angeles, Calif.90020 – G.M: P.J. Cassidy. P.D: Ron Martin – Gentle country. **F.PL:** 50kW fulltime.
107) Box 670, Roswell, N.M.88201 – G.M: M.H. Tucker. P.D: G. Hedlund. C.E: T. Rose – MoR, sports, talk.
108) One Gateway Centre, Pittsburgh, Pa.15222 – G.M: A.B. Hartman. P.D: A. Mitchell. C.E: P. Stewart – News, talk, sports, MoR, Top 40.
109) 1170 Soldiers Field Rd, Boston, Mass.02134 – G.M: B. Cusack. P.D: Ira Apple. C.E: N. Graham – MoR. **N**-1.
110) Box 898, Corpus Christi, Tex.78403 – Pres: W.D. York. Op's Mgr: Anne Savoy. C.E: A. Kriegel – Rlg.
111) Box 2720, Casper, Wyo.82602 – G.M: R.D. Price. P.D: G. Teddy. C.E: S. Broomell – MoR. **N**-3.
112) 1100 Walnut St, Des Moines, Iowa 50308 – G.M: R.H. Harter. P.D: R.W. Gifford. C.E: R. Engelhardt – C&W. (Silent Sun 0600-1400).
113) 400 Park Ave, New York, N.Y.10022 – G.M: N. Rockoff. P.D: E. Solomon. C.E: R. Walton – Modern country music. **N:** at :50.
114) Box 1060, Chico, Calif.95926 – G.M: F.J. Mertz. P.D: Art Douglas. C.E: Don Butner – MoR. **N**-3.
115) Bienville St, New Orleans, La.70130 – G.M: E. Anderson. P.D: J. O'Brien. C.E: J.N. Cope – Cont, Top 40.
116) Box 1060, Titusville, Fla.32780 – G.M: R.L. Bright. P.D: L. Knight. C.E: A. Sterger – MoR. **N**-3.
117) Independence Mall East, Philadelphia, Pa.19106 – G.M: F.J. Oxarart. P.D: F.B. Walters. C.E: C.P. Payne – News only. (Silent Mon 0600-1030).
118) Box 799, Longmont, Colo.80501 – G.M: Wm. G. Stewart. P.D: J. Boynton. C.E: Bob Suarez – Top 40.
119) Box 1197, Pierre, S.D.57501 – G.M: J. Gutensohn. P.D: M. Swendsen. C.E: R. Anderson – C&W.
120) Box 7760, Murray, Utah 84107 – G.M: R.J. Carlson. P.D: A. Hauge. C.E: C. Murray – RR.
121) 4141 Pinnacle St, El Paso, Tex.79902 – G.M: J.R. McVeigh Sr. P.D: B.M. McVeigh. C.E: M. Gaglio – Spanish.
122) Box 1063, Beckley, W.Va.25801 – G.M: T.K. Martin. P.D: W.F. Mahoney, Jr. C.E: J.D. Sessler.
123) Box 10502, Birmingham, Ala.35202 – G.M: D.D. Wear. C.E: P.D. Gross – Good music, talk, news, classical music.
124) O'Grady Dr, Chattanooga, Tenn.37409 – G.M: D. Anthony. P.D: Bob Todd. C.E: Joe Pateet – RR.
125) 6121 Sunset Blvd, Los Angeles, Calif.90028 – G.M: G. Nicholaw. P.D: Jim Zaillian. C.E: Ric Hammond – All news.
126) Box 10174, Tallahassee, Fla.32302 – G.M: Bob Maupin. P.D: Joe Bullard. C.E: C. Washington – Black.
127) 2835 North Illinois St, Indianapolis, Ind.46208 – G.M: J.C. Hilliard. P.D: G.A. Johns. C.E: R. Brockway – News, MoR. **N**-3.
128) Box 1402, Wichita, Kansas 67201 – G.M: F.F.M. Lynch. P.D: G. Hightower. C.E: C. Koch – C&W. (Silent Mon 0500-1000).
129) Box 898, Greenville, N.C.27834 – G.M: W.L. Fowler. P.D: C. Huddle. C.E: Jay R. Griffith – C&W. **N**-1.
130) Box 12045, Memphis, Tenn.38112 – G.M: C.A. Scruggs. P.D: Lee Armstrong. C.E: H.N. Fones – RB. (Silent Mon 0500-0900).
131) Box 44, Madison, Wisc.53701 – G.M: R. Russell. P.D: P. Murphy. C.E: S. Stern – MoR, sports, talk. **N:** at :25 & :55.
132) Box 1070, Sunbury, Pa.17801 – G.M: J.K. Stock. P.D: T. Mitchell. C.E: J.W. Keller, Jr. – MoR. **N**-1.
133) Box 4308, Greenville, S.C.29608 – G.M: R. Somers. P.D: G.S. Green. C.E: R. Slatton – Progressive RR.
134) 2 Greenway Plaza East, Houston, Tex.77046 – G.M: R.M. Chandler. Op's Mgr: Ric Libby. C.E: B.W. Walker – Modern country.
135) Polson, MT 59860.
136) Box 1080, Santa Cruz, Calif.95061 – S.M.&C.E: C.V. Berlin – MoR, good music. **N**-1.
137) 1 Financial Plaza, Hartford, Conn.06103 – G.M: R.S. Tyrol. P.D: R. Miller. C.E: H.A. Dorschug – Cont, sports. **N**-3.
138) 931 S.W. King Ave, Portland, Ore.97205 – G.M: J.J.



Next best thing
to a sound proof booth.



Shure's new headset microphones are coming through loud and clear. With their unique miniature dynamic element placed right at the end of the boom, Shure's broadcast team eliminates the harsh "telephone" sound and standing waves generated by hollow-tube microphones. The SM10 microphone and the SM12 microphone/receiver have a unidirectional pickup pattern that rejects unwanted background noise, too. In fact, this is the first practical headset microphone that offers a high quality frequency response, effective noise rejection, unobstructed vision design, *and* unobtrusive size.

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SHURE®

Manufacturers of high fidelity components, microphones, sound systems and related circuitry.

Opsitnik. P.D: S. Taylor. C.E: L.J. Windes – C&W. **N**-3. (Silent Mon 0800-1230).

139) 7901 Carpenter Freeway, Dallas, Tex.75245 – G.M: J.C. Butler. P.D: G. Brant. C.E: R. Neace – C&W, MoR, Beautiful music. (Silent Mon 0700-1045).

140) Box 491, Marietta, Ga. 30061 – G.M&C.E: M. Wilder. P.D: R.F. Allison – Nostalgia.

141) 107 6th St, Pittsburgh, Pa.15222 – G.M: R. Willoughby-Ray. P.D: Don Evans. C.E: Bob Brandon – Country music. **N**-3.

142) 377 Alhambra Circle, Coral Gables, Fla.33134 – G.M: L.A. Christian. C.E: E. Miller – Beautiful music. **F.Pl:** 10kW nights.

143) 307 W. Walnut St, Louisville, Ky.40202 – G.M: E.A. Gudridge. P.D: Lee Gray. C.E: B. Clark – Top 40, RR. **N**-1.

144) Box 1790, Little Rock, Ark.72203 – G.M: R.A. Walsh, Jr. P.D: W. Moss. C.E: F. McDonald – Progressive rock, Top 40. **N**-3.

145) 1790 Grant St, Denver, Colo.80203 – Pres: J.H. Gayer. G.M. Ben Avery. C.E: W. Smith – MoR.

146) 320 Aurora Ave. No, Seattle, Wash.98109 – G.M: E. Bremmer. P.D: A. Mason. C.E: H.J. Klein – RR, Top 40.

147) 1800 Broadway, Eureka, Calif.95501 – G.M: R.G. Meyer. P.D: D.K. Lyon. C.E: Ken Cummings – MoR.

147a) Dermott, Ark.71638.

148) 3800 Hooper Ave, Baltimore, Md.21211 – G.M: A.E. Burk. P.D: J. Lacy. C.E: N.A. Hedrick – MoR. **N**-3. (Silent Mon 0505-1000).

149) Box 6978, Jacksonville, Fla.32205 – G.M: M.W. Rowland. P.D: Ken Kirby. C.E: D. Jones – Modern country music.

150) 1470 Pine St, San Francisco, Calif.94109 – G.M: Judd Sturtevant. P.D. D. Crossatto. C.E: R.L. Roberts – Rlg. Prgr's also in Croatian, Italian, Greek. **N**-1.

151) Box 789, Grand Junction, Colo.81501 – G.M: C.Q. Anderson. S.M: W.G. Walters. C.E: A. LaDage – News, MoR. **N**-2, 1400, 1700, 0000, 0500. Spanish: Sun 0400-0700.

152) 384 Clinton St, Hempstead, N.Y.11550 – Mgr: P. Godofsky. P.D: J. Carr. C.E: R. Silvera – Cont, MoR. **N:** 5 min's on the h and half h.

153) Park Centre, 1250 Superior, Cleveland, Oh.44114 – G.M: T.J. Embrescia. P.D: J.C. Restifo. C.E: J. Battison – MoR. **N**-1. (Silent Mon 0630-1000).

154)1401 So. Oak Knoll, Pasadena, Calif.91109 – G.M: L. Webb. S.M: H. Mathews. C.E: J. Reeder – Cont. pop.

155) Box 1274, Tampa, Fla.33602 – G.M: R.T. Rowland. P.D: Don Beckman – Modern country. **N:** at :55 & 30.

156) 5010 Underwood Ave, Omaha, Neb.68132 – G.M: L. Bremser. P.D: Tom. Johnson. C.E: J.A. Bruna – C&W, MoR.

157) Box 1071, Bend, Ore.97701 – G.M: J. Stenkamp. C.E: J. Thornton – MoR.

158) 1 Julian Price Place, Charlotte, N.C.28208 – Mgr: C.M. Tarleton. P.D: A. Bickel. C.E: T. Stutts – MoR, cont. **N**-2.

159) Box 426, Bay Minette, Ala.36507 – G.M.&P.D: J.B. Talley, Jr. C.E: Rod Thornton – Country music.

160) Perry-Davis Hotel, Petoskey, Mich.49770 – G.M: M.D. Harrington. P.D: J. Alexander. C.E: M. Veurink – MoR, cont.

161) Janaf Office Bldg, Norfolk, Va.23502.

162) 1 Memorial Drive, St. Louis, Mo.63102 – S.M: V. Dawes. P.D: J. Butler. C.E: C. Sarros – Sports, good music. **N:** at :55, :00.

163) Box 1120, Eugene, Ore.97401 – G.M: R.L. Cordell. P.D: R. Doran. C.E: T. Mulder – Cont. pop.

164) 1450-7th Ave, San Diego, Calif.92101 – G.M: J.M. Sabella. Op's Mgr: K. Newby. C.E: J. Heiser – News, information, talk, sports. (Silent Mon 0800-1300).

165) Box 1130, Shreveport, La.71120 – G.M: C.E. Fellers. P.D Jim Hawthorne. C.E: O.S. Droke – MoR, C&W. **N**-2.

166) Drawer FF, Edna, Tex.77957 – G.M: R. Boutin. P.D: R. Felton. C.E: J. Bales – C&W. **N:** at :55.

167) Box 1233, Bismarck, N.D.58501 – G.M: A.L. Anderson. P.D: J. Fisher. C.E: J. Schwartz – Country music. **N**-1.

168) 18900 James Couzens Hwy, Detroit, Mich.48235 – G.M: H.Y. Levinson. C.E: G. Urbiel – News.

169) 10332 Bloomington Freeway, Minneapolis, Minn.55420 – G.M: D.G. Weber. P.D: J. Canton. C.E: Ken Olsen – RR (Top 40).

170) 565-5th Ave, New York, N.Y.10017 – Mgr: V. Paulsen. P.D: R. Bruno. C.E: P. Champion – MoR. **N**-3.

171) Box 402, Milwaukee, Wisc.53201 – G.M: J.E. Hinkle, Jr. P.D: Tom Lambert. C.E: R.P. Johnson – MoR. **N**-3.

172) Box 1380, Moultrie, Ga.31768 – G.M: Roy F. Zess. P.D: B.T. Willis. C.E: Don Dickenson – MoR, news.

173) Box 1398, Gainesville, Ga.30501 – Mgr: E.H. Reynolds. P.D: S. Jackson. C.E: R. Mulliner – Modern C&W, gospel. **N**-3.

174) Box 6347, Sacramento, Calif.95860 – G.M: M. Slater. P.D: W. Shaw. C.E: R. Stofan – C&W. (Silent Mon 0730-1330).

175) 1301 S.W. First St, Miami, Fla.33135 – G.M: H.M. Levin. P.D: E. Milián. C.E: Jim Hall – Spanish ("La Cubanísima"). (Silent Mon 0500-1000). **N**-3.

176) Box 5278, Boise, Ida.83705 – G.M: R.C. Weisenburger. P.D: C. Clyde. C.E: L. Sturkenburg – Modern country music. **N**-1. (Silent Mon 0700-1200).

177) 210 West 9th St, Sioux Falls, S.D.57102 – S.M: W. Pritchard. P.D: D. Stitt. C.E: R. Marty – MoR. **N**-3.

178) Box 1516, Richmond, Va.23212 – G.M: J.B. Tansey. P.D: W. Williams. C.E: T.W. Chezik – MoR. **N**-1. (Silent Mon 0500-1000).

179) Box 14805, Las Vegas, Nev.89114 – G.M: R.C. Phalen, Jr. P.D: M. McCarthy. C.E: G. Alsum – Cont.

180) 8 So. Michigan Ave, Chicago, Ill.60603 – G.M: G.C. Dubinetz. Op's Mgr: C. Scott. C.E: Don Jeffers – Modern C&W.

181) 145 Social Hall Ave, Salt Lake City, Utah 84111 – S.M: D. Lindsay. P.D: F. Wineriter. C.E: D. Findley – MoR. **N**-1.

182) Box 2505, Montgomery, Ala.36105 – G.M: K. Richards. Op's Mgr: M. Davis. C.E: P. Witt – MoR. **N**-1.

183) 9416 Mission Gorge Rd, Santee, Calif.92071 – G.M: R. Wittberger. P.D: G. Peterson. C.E: M. Jones – Top 40. **N:** at :55.

184) Box 1349, Tulsa, Okla.74101 – G.M: J.R. Cresse. P.D: Jay Jones. C.E: L. Nichols – C&W. **N**-3.

185) 1015 Main St, Wheeling, W.Va.26003 – G.M: J.R. Felton. S.M: R.L. Howard. P.D: Ron Thompson. C.E: C.D. Miller – C&W, rlg. **N**-2. **V**. Rp.

186) Box 6177, San José, Calif.95150 – G.M: W.H. Weaver. P.D: Don Welsh. C.E: E. Elster – MoR. **N**-1.

187) 350 E. Ave, Rochester, N.Y.14604 – G.M: R. Luther. P.D: W. Kimble. C.E: A. Davis – MoR. **N**-3. (Silent Sun 0607-1200).

188) For details refer to Voice of America schedule.

189) Box 608, Kalispell, Mont.59901 – G.M.&C.E: W.H. Patterson. P.D: Len Anderson – MoR. **N**-3.

190) 2130 S.W. Fifth Ave, Portland, Ore.97201 – G.M: R.P. Kale. P.D: E.G. Norberg. C.E: P.F. Mathew – MoR. **N**-1; **N**-3 during commute hours. (Silent Sun 1000-1300).

191) 2120 Commerce St, Dallas, Tex.75201 – G.M: K.C. Dobra. P.D: McNamee. C.E: S. Schott – Top 40.

192) Box 631, Annapolis, Md.21404 – G.M: M.H. Blum. P.D: S.A. Travers. C.E: M.W. Pittman – RB, popular jazz, gospel and spirituals.

193) 801-2nd Ave, New York, N.Y.10017 – Mgr: D. Edwards Brunson. P.D: F. Crocker. C.E: B. Schuster – RB, jazz, gospel. **N:** at :55.

194) 128 W. Washington Blvd, Ft. Wayne, Ind.46802 – G.M: W.L. Maurer. P.D: C. Rathaus. C.E: B.L. Wolfe – Cont. pop. **N**-1.

195) 1031 Navarro, San Antonio, Tex.78205 – Mgr: J.W. Barger. C.E: P. Keen – MoR.

196) City Line and Monument Aves, Philadelphia, Pa.19131 – G.M: R.B. Sherman. P.D: B. Shermer. C.E: J. Miller – News only.

197) 5200 State St, Saginaw, Mich.48603 – G.M: H.H. Wolfe. P.D: P. Pigeon. C.E: E. Bardo – Oldies, MoR. **N**-3.

198) Box 130, Guymon, Okla.73942 – G.M: T.M. Raburn, Jr. C.E: M.C. McClure – Modern country.

199) 9446 Broadview Rd, Cleveland, Oh.44147 – G.M: A. Caruso. P.D: C. Watkins. C.E: R. Reymont – MoR, cont. pop. **N:** at :25, :55.

200) Box 167, San José, Calif.95103 – G.M: Joe E. Levitt. P.D: Ken Blase. C.E: G. Lindell – MoR, news.

201) Broadcast House, 40th and Brandywine Streets N.W, Washington, D.C.20016 – G.M: P.A. Lund. P.D: M. Alter. C.E: G. Klink – All news.

202) 21700 Northwest Hwy, Southfield, Mich.48075 – S.M: J. Risher. Op's Mgr: Tom Collins. C.E: C. Roberts – Modern country. **N:** at :45.

203) 3415 University Ave. S.E, St. Paul, Minn.55114 – G.M:

J. Nugent. C.E: N. Paetznick – Cont. **N:** at :20, :40.
204) 131 E. Magnolia Ave, Burbank, Calif.91502 – G.M: G. Price. P.D: Jim Tabor. C.E: R. Latiolais – News, progressive RR. **N**-2.
205) 3066 Trendwest Dr, Winston-Salem, N.C.27103 – G.M: C. Howard. P.D: Ed Snow. C.E: W. Outland – C&W.
206) Box 4227, Mesa, Ariz.85201 – G.M: E. Hauenstein. P.D: W. Compton. C.E: R. Thomson – Progressive rock.
207) Box 1031, New London, Conn.06320 – G.M: P.R. Morey. P.D: J. Buchanan. C.E: R. Barrett – Cont. **N**-1, at :55.
208) 159-4th Ave. No, Nashville, Tenn.37219 – G.M: J.M. Ward. P.D: Dick Kent. C.E: E. Lawson – Top 40, RR. **N:** at :20, :40.
209) Box 8348, Spokane, Wash.99203 – G.M: S.E. Dean. P.D: Ron Norwood. C.E: Tom German – C&W. **N**-2. (Silent Sun 1100-1600).
210) 1460 Whitehall St, Waukesha, Wisc.53186 – S.M: W.G. Smith. P.D: J.L. Bralick – Cont, MoR.
211) Box 1510, Ontario, Calif.91762 – G.M: C.G. Sprenger. P.D: Chuck St. Clair – Adult good music. **N**-3. (Silent Mon 0800-1300).
212) 111 Broadway, Boston, Mass.02116 – G.M: P. Kelley. P.D: Pat H. Whitley. C.E: B. Wotiz – MoR. **N**-1.
213) Box 1510, Dover, N.J.07801 – Pres: R.E. Bailey, Jr. P.D: S.D. Halton. C.E: C. Blanding – MoR. **N**-3.
214) Box 1520, Oxnard, Calif.93034 – G.M: D. Davis. P.D: T. Harris – Cont.
215) 1430 Main St, Buffalo, N.Y.14209 – G.M: R.T. Cronk. P.D: R. Harper. C.E: D. Schumeyer – RR, sports, MoR.
216) Box 1520, Oklahoma City, Okla.73101 – G.M: Tom S. Reddell. P.D: J.R. Dark. C.E: J. Timm – Cont.
217) Box 22125, Portland, Ore.97222 – G.M: J.B. McGovern. P.D: R. Reed. C.E: W.R. Gott – MoR.
218) Box J, Lafayette, La.70501 – G.M: James V. Hoffpauir. P.D: R. Richard. C.E: D.H. McDuffie – C&W. **N**-3.
219) 114 1/2 So. Broadway, Rochester, Minn.55901 – Mgr.&C.E: M.L. Hedstrom. P.D: R.R. Radke – C&W. **N**-3.
220) Box 389, Muskegon Heights, Mich.49443 – G.M: W.E. Kuiper. S.M: H.R. Smith. C.E: P. Waite – Rlg.
221) Bridgeport, Conn. (Not yet on the air).
222) 21st & Q, Sacramento, Calif.95813 – S.M: A.C. Williams. P.D: R.C. Garcia. C.E: D. Harry – All news. **N**-1.
223) 501 Carew Tower, Cincinnati, Oh.45202 – G.M: P.E. McDonald. P.D: B. Still. C.E: Jim Ranney – Sports, good music, adult non-rock. **N:** at :55, :00.
224) Box 711, Harlingen, Tex.78550 – G.M: C.A. Cantu. P.D: R. Botello. C.E: A. Guiese – 100% Spanish. **N:** at :15 and :45.
225) Box 216, Dalton, Ga.30720 – G.M: Ron Arnold. P.D: L. McClure. C.E: L. Richter – Cont. **N**-1.
226) Box 352, Poplarville, Miss.39470 – Mgr: B.O. Griffin – MoR, gospel. **N**-1.
227) Box 1530, Cheyenne, Wyo.82001 – Mgr: T. Rose – MoR.
228) 113 W. Forsyth St, Jacksonville, Fla.32202.
229) 8 Court St, Auburn, Me.04210 – G.M: G. Bowles. P.D: D. Dean. C.E: J. Chadwick – RR. (Presently using 1kW).
230) Box 2049, Ft. Worth, Tex.76101 – G.M: P. Hull. Op's Mgr: J.S. Christoferson. C.E: J. Schumaker – C&W. (Silent Mon 0600-1100).
231) 5700 Sunset Blvd, Los Angeles, Calif.90028 – G.M: P.C. Newell. P.D: A. Heskovitz. C.E: F. Cherny – Good music. **N**-1.
232) Hwy 281 East, Waterloo, Iowa 50705 – G.M: J.R. Hail. P.D: Hal Hanna. C.E: T. Thill – C&W. (Silent Mon 0700-1100). **V.** Rp.
233) 4243 Albany St, Albany, N.Y.12205 – G.M: G.E. Geib. P.D: J.W. Wagner. C.E: J.J. Cruise – RR, Top 40. **N:** at :55. (Silent Mon 0500-1000).
234) 2043 Locust St, Philadelphia, Pa.19103 – G.M: M. Mills. P.D: F. Baker. C.E: M. Venditti – C&W, sports.
235) 1445 W. Baseline Rd, Phoenix, Ariz.85009 – G.M: G.A. Wilson. S.M.&P.D: B. Von Blomberg. C.E: J. Clark – Rlg.
236) 6001 Wilkinson Rd, Richmond, Va.23227 – G.M: Les Sand. P.D: J. Edwards. C.E: J. Hansen – Sports, MoR, oldies. **N**-3.
237) Box 7911, San Francisco, Calif.94120 – G.M: J.P. Hickey, Jr. Op's Mgr: Lee Whiting. C.E: F. Krock – Classical music. **N**-1. (Silent Mon 0800-1400).
238) 5065 W. 2100 S, Salt Lake City, Utah 84120 – G.M: G. Guthrie. P.D: F. Wix. C.E: K. Huffman – C&W. **N:** at :25.
239) 220 Miracle Mile, Miami, Fla.33134 – G.: S. Lew. P.D: A. Villalobes, Liz Shea. C.E: D.V. Gause – Spanish ("Radiocentro"), rlg.
240) Box 1967, Mobile, Ala.36601 – G.M: W.H. Goforth. C.E: P. Waite – Gospel.
241) Box 506, Arvada, Colo.80001 – G.M: L. Green. P.D: R. Harris. C.E: L. Allen – Rlg, gospel. **N**-1.
242) Box 1550, Shreveport, La.71120 – Mgr: J.A. Reeder. P.D: S. Rutledge, Jr. C.E: A.T. Moore – RB.
243) Box 629, Bennettsville, S.C.29512 – G.M: A.K. Harmon. C.E: R. Gehm – Cont, black.
244) Box 3320, Jackson, Miss.39207 – G.M: Z. Roden. C.E: S. Coperly – Black.
245) Box 1988, Tampa, Fla.33601 – G.M: Art Reuben. R.D.&C.E: W. Polk – C&W. **N**-3.
246) 2460A Atlanta St, S.E, Smyrna, Ga.30080 – Pres: L.N. Polk. C.E: T. Conan, Jr – Rlg. **N:** at :20, :50. **V.** Rpt's not verified.
247) Univ. of Arizona, Tucson, Ariz.85721 – G.M: F. Barreca. P.D: P. McQuown. C.E: R. Hendrickson – Jazz. **N:** 1445, 1945, 0045.
248) 143 Rumford Ave, Newton, Mass.02166 – Mgr: O. Demetriades. P.D: G. Clancy. C.E: R. Wolf – MoR. **N:** at :15, :45.
249) 2043 10th St, N.E, Roanoke, Va.24012 – G.M: H.R. Peyton. P.D: B. Bivens. C.E: M. Parsons – C&W, gospel.
250) Box 5606, Reno, Nev.89503 – G.M: Tom Magowan. S.M: Sue Page. C.E: J. Blaine – Adult MoR.
251) Box 12040, Nashville, Tenn.37212 – Mgr: T. Townley. P.D: Bob Clark. C.E: L.E. Keen – Gospel, rlg. **N**-1.
252) Box 1709, Bakersfield, Calif.93302 – G.M: L.A. Schamblin. P.D: P.R. Biermann. C.E: G.E. Patterson – News, MoR, C&W. **N**-3.
253) 229 W. 43rd St, New York, N.Y.10036 – G.M: W. Neimann. P.D: R. Sherman. C.E: Z.N. Masoomian – Classical music. **N:** 1300, 1800, 2300. **V.** Rep's not wanted.
254) Box 298, Paducah, Ky.42001 – G.M: S. McKinney-Smith. P.D: Pat. Martin. C.E: J. Barlett – Cont. **V.** Rep's not replied to.
255) Box 28, Lancaster, S.C.29720 – G.M: B.L. Phillips. P.D: B.W. Griffin.
256) Box 236D, Warsaw, N.C.28398 – G.M: J.L. Mosely. P.D: R. Williams. C.E: J. Blanchard – MoR. **N**-3. **V.** Rep's not answered.
257) Box 152, Joplin, Mo.64801 – G.M.&P.D: W.B. Neal. C.E: F. Haupt – Cont.
258) 1700 No. Alvarado, Los Angeles, Calif.90026 – G.M: G. Price. P.D: Jim Maddox. C.E: A. Laird – Black, Top 40.
259) Box 15040, Phoenix, Ariz.85018 – G.M: Vic Meriane. P.D: L. Daniels. C.E: E. Klein – Modern country. **N:** at :55.
260) Box 516, Georgetown, Ky.40324 – G.M.&C.E: R.E. Johnson – Modern country. **N**-3. **V.** Does not verify.
261) 1580 Pennsylvania Ave, Patchogue, N.Y.11772 – G.M: Don Karnes. C.E: W. Wicks.
262) Box 8550, Washington, D.C.20027 – G.M: G.T. Potter. P.D: Jim Collins. C.E: M. Smith – Cont.
263) 3000 SW 60th Ave, Ft. Lauderdale, Fla.33314 – G.M: G. Milner. P.D: Tom Judge. C.E: Don Powers – RR.

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Prgr's: (only hourly newscasts mentioned. Sports, current affairs and rlg prgr's are also carried) American Cont. R. Netw: At 50½-51½, 54½-59½ min's past the h. W. 1150½ (Sat

1250½-0559½, Sun 1650½-0359½. American Inf. R. Netw: On the h. until 5 min's past the h. 1100 (Sat 1200, Sun 1300)-0605. American Entertainment R. Netw: At 30-35 min's past the h. W. 1130 (Sat 1230)-0635, Sun 1330-1335. American FM R. Netw: At 15-19 min's past the h. 1215-0519, Sat, Sun 1515-0419.

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L.P: Chmn: Robert J. Booth. Operations Mgr: James H. Greenwood. Gen.Mgr. for Radio: Michael K. Erickson. News Dir: Michael R. Caffee. Prgr.Dir: R.K. Rand.
Headquarters: Jackson Bldg, 1929 Irving St, San Francisco, Calif. 94122. **Te:** 731-6630 (Transcription Sce Telefilm Distribution Center and Netw. at above address).
Official Publication: NABC JOURNAL is distributed to all Radio and TV sts in USA and Canada free of charge. NABC JOURNAL serves to inform stations of activities within public broadcasting in the USA, on new technical products and various NABC activities. (Colour, 68 pages. Issued monthly) – **Publisher:** Teragram Prodns, P.O. Box 1408, Los Altos, Calif. 94022.

NATIONAL PUBLIC RADIO

Non-commercial nationwide network.
ADDR: 2025 M Street, NW Washington DC 20036.
L.P: Chmn. of Board: Joseph Welling. Pres: Lee Frischknecht. Vice-Pres: Presley Hollmes. Dir. of Prgr. Adm. and Operations: George Geesey. Dir. of Eng: Richard Cassidy. Dir. of Public Inf: James P. Barrett.
NPR is an interconnected system of 157 members operating 181 sts serving communities in 42 states, Puerto Rico and the District of Columbia. Educational, cultural and public affairs prgrs are produced, acquired, and distributed by NPR through the two-way system: over one half of prgrs offered by NPR are obtained from member sts, other public radio production sources and foreign sources as the BBC, CBC and R. Nederland.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS (NAEB)

Headquarters: 1346 Connecticut Ave. NW, Washington, DC 20036. **Te:** (202)785-1100.
L.P: Pres: James A. Fellows. Secr: Mary Lynn Moody. Tres: William G. Sickles. The NAEB is an association designed to serve the professional needs of educational radio and television st's, systems, and personnel. Its membership included more than 400 non-commercial radio and television st's, and non-broadcast systems; 3,700 individual members; and a number of schools, colleges, universities, related associations, industrial firms, and allied agencies.

GOVERNMENT AGENCY: THE FEDERAL COMMUNICATIONS COMMISSION

(FCC) – the licensing agency for broadc. st's.
ADDR: 1919 "M" Street N.W. Washington D.C. 20554.
L.P: Chmn: Richard E. Wiley. Exec.Dir: Richard D. Lichtwardt. Chief Broadcast Bureau: Wallace E. Johnson. The FCC is an independent Federal agency, composed of seven Commissioners appointed by the Pres. with the consent of the Senate. One of its major activities is the general regulation of broadc, visual as well as aural. This regulation may be divided into three phases: 1) the allocation of spectrum space to the different types of broadcast services. 2) consideration of applications to build and operate individual stations. 3) regulation of their operation.
Call letters: International agreement provides for the identification of the radio st. by the first letter or first two letters of its assigned call signal, and for this purpose apportions the alphabet among different nations. USA st's use the initial letters K, N and W, exclusively, and part of the A series. Broadcast st's are assigned call letters beginning with K and assigned to st's west of the Mississippi River and in the territories and possessions, while W is assigned to broadcast st's east of the Mississippi.

Number of broadcasters as of July 1st, 1976:

	On Air	Authorized
AM	4479	4525
FM	2820	2947
Educational FM	845	913
UHF TV (Commercial)	195	241
VHF TV (Commercial)	513	523
UHF TV (Educational)	155	164
VHF TV (Educational)	98	104
UHF TV Translators	982	1179
VHF TV Translators	2217	2366
FM Translators	128	212

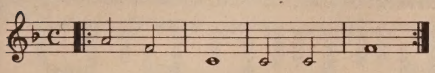
UNITED NATIONS

UNITED NATIONS RADIO

ADDR: United Nations, New York NY 10017. **Cable:** Unations New York. **Te:** 212-745-1234. **Telex:** 232422

L.P: Asst.Sec.Gen. Office of Public Information: G. Akatani. R. and Visual Services Div.Dir: M. Martin. Dep.Dir. of R. and Visual Services: M. Hayward. Ag. Chief of Radio: G. Movshon. Chief, International and Satellite Communications: M. Bolotsky

INT-SIG: Music chime.



ANN: "This is the United Nations". This introductory phrase is used in all official UN prgrs in all of the languages concerned.

Message to listeners: The R. and Visual Services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the schedule of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in Accra, Addis Ababa, Algiers, Asuncion, Athens, Baghdad, Bangkok, Beirut, Belgrade, Bogota, Buenos Aires, Bujumbura, Cairo, Colombo, Copenhagen, Dakar, Dar Es Salaam, Geneva, Kabul, Karachi, Kathmandu, Khartoum, Kinshasa, Lagos, La Paz, Lima, Lomé, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Port Moresby, Port-of-Spain, Prague, Rabat, Rangoon, Rio de Janeiro, Rome, San Salvador, Santiago, Sydney, Tananarive, Teheran, Tokyo, Tunis, Washington, Yaounde. Request for copies of the sched. on UN broadc, which can be heard in the United States should be addressed to: Radio and Visual Services Division, United Nations, New York.

BROADCAST FROM THE UNITED NATIONS

G=Greenville; T=Tangier; B=Bethany; D=Delano; DI=Dixon; M=Monrovia; P=Philippines; I=Europe/Mid. East/No. Africa; II=We/Ce. and No. Africa; III=No. Africa/Mid. East; IV=Brazil; V=Latin America; VI=We. and Ce. Africa: VII=So. Europe/Mid. East/No. Africa; VIII=No./We. and Ce. Africa; IX=Africa; X=Malaysia/Singapore; XI=Australia/New Zealand; XII=So. Ea. Asia.
*Mon-Fri; †)Tues-Sat.

Times	Area	kHz/tr.	Language
1800-1830*	I	15410/11900(G) 15150(T)	a
1830-1845*	II	15410/11900(G) 18285(G)/15140(T)	b
1845-1900*	III	15410/11900(G) 18275(G)/15140(T)	
0000-0015†	IV	9650/11955(G) 10454(G)/15240(M)	Portuguese
0130-0200†	V	9640(G)/6130/11740(B)	Spanish
0230-0245†	X	15155/17750(P)[1]	English
0530-0600†	VI	6055/9530(G)	d
0630-0700†	VII	9630/17730(T)[2]	c
0700-0715†	VIII	6055/9540(G)	f
0745-0800†	IX	17860/15235(M)[3]	g
0845-0900†	XI	5955/9555(D)	English
1000-1015	XII	11930(P)[4]	E/Japanese
1015-1030†	XII	6145(DI)/9660(D)	Filipino
1030-1045†	XII	15250(P)[4]	Chinese(N)
1045-1100*	XII	11930(P)[4]	Indones.(N)

[1]) this prgr. is transmitted to P on 15270(DI)/17850kHz(D) – [2]) this prgr. is transmitted to T on 6055/9530kHz(G) – [3]) this prgr. is transmitted to M on 6055/9540kHz(G) – [4]) these prgrs are transmitted to P on 6145(DI)/9660kHz(D). a=**N:**English 1800, French 1805, Spanish 1810, Greek 1815, Turkish 1820, Portuguese 1825 – b=**N:** English 1830, French 1835, Portuguese 1840 – c=**N:** Arabic 1845, French 1850, Portuguese 1855 – d=**N:** French 0530, English 0545 – c=**N:** English 0630, Hebrew 0635, Italian 0640, Arabic 0645 – f=**N:** French 0700, English 0707 – g=**N:** Swahili 0745, Somali 0750, Portuguese 0755.

BROADCASTS OF MEETINGS OF THE SECURITY COUNCIL WHEN IN SESSION

AM Meeting		kHz/Beam
1430-1900	N. Atlantic, N. Europe[5] W. and C. Africa	21670/15410 (94°/320)G
1430-1900	Latin America[6]	17860/21515 (164°/174°)G
PM Meeting		
1900-2400	Europe and N. Atlantic[5]	11900(45°)G
0000-1000	Europe and N. Atlantic[5]	6055(45/32°)G
1000-1400	Europe and N. Atlantic[5]	15415(32°)G
1400-1430	Europe and N. Atlantic[5]	15410(32°)G
1900-2200	W. and C. Africa[5]	15410(91°)G
2200-2400	W. and C. Africa[5]	15415(91°)G
0000-0500	W. and C. Africa[5]	11760(91°)G
0500-1200	W. and Central Africa[5]	9540(91°)G
1200-1430	W. and Central Africa[5]	21670(94°)G
1900-2300	Latin America[6]	21515(174°)G
1900-2330	Latin America[6]	17860(164°)G
2300-0200	Latin America[6]	11715(168°)B
0200-1100	Latin America[6]	6155(168°)B
1000-1230	Latin America[6]	9525(168°)B
1200-1430	Latin America[6]	21515(174°)G
1200-1430	Latin America[6]	17860(164°)G

[5]) in English/French; [6]) in Spanish.

Programmes from the United Nations are broadcast by stations in more than 120 countries and territories. The time of the these broadcasts may be ascertained from local newspapers or from the stations concerned. Radio stations in the US and Canada receive the programmes direct, by line, from UN Headquarters or by recordings – The Radio Service broadcasts by shortwave, produces and/or distributes recorded radio programmes in Amharic, Arabic, Chinese, English, French, Greek, Hebrew, Indonesian, Italian, Japanese, Filipino, Portuguese, Russian, Somali, Spanish, Swahili, Turkish, and Urdu – Letters from listeners are welcome. The Radio and Visual Services Division acknowledges, with verification card, reports of the reception of shortwave transmissions. New listeners are sent some general information about the UN upon request. Correspondence and requests for particulars of UN broadcast from Headquarters should be addressed to: Radio and Visual Services Division, United Nations – Room 805, New York, NY 10017, USA.

Radio is a way of peacefully uniting the world!

To be a part of it you have got to have the only comprehensive litterature on the subject

World Radio TV Handbook.

NEW! A special service

World Radio TV Handbook

NEWSLETTER

For: SW clubs, DX-ers, Broadcasters, Embassies, Programmers
Published 3 times a year: May – August – November 1977

What is the WRTH Newsletter?

The Newsletter is compiled and written by Jens Frost, Editor of WRTH for 20 years, and has been conceived as a Supplement to the data which appears in each WRTV issue. Changes of all kinds occur between yearly printings and this updated information will be included in the Newsletter as we receive it. In addition, new developments in equipment, programming, reception and technical services will be included.

Why do I need the WRTH Newsletter?

Simply to keep up-to-date with the latest frequency changes, programming, seasonal sunrise-sunset shifts and other international developments – all of vital interest to you in your hobby or occupation. The Newsletter fills the gap between yearly editions of World Radio TV Handbook. If you are a SW club member you can learn about the news of other such clubs around the world. And here's a communication that can answer your personal and technical queries. *That talks shop!* Reaction from subscribers all over the world has been most favourable. Many have written expressly to commend WRTH in providing "an excellent service" . . . with ". . . all the information I need."

How much will the WRTH Newsletter cost?

Payments may be made in dollars, Sterling or Danish Krone drafts. **The cost for the 1977 issues will be $5.75 or £3.25 or DKR33.** This covers the costs of compilation, printing and mailing from WRTH offices in Copenhagen. Newsletter subscribers will not be solicited from other sources. We are interested in providing a unique service to existing readers of WRTH – not in obtaining general circulation. Therefore, the WRTH Newsletter is a source of news and information created exclusively for you, and others, like you, interested in short wave listening and broadcasting.

How can I subscribe to the 1977 WRTH Newsletter?

Simply write to: **Mr Jens Frost, Editor, WRTH Newsletter, Soliljevej 44, 2650 Hvidovre, Denmark,** on your business or personal letterhead, and enclose a draft as above, with your subscription request. And don't forget to include any SW Club or other news you think would be of interest to other WRTH Newsletter readers all over the world. Why not send your draft to Mr Frost today?

for WRTH readers in 1977

World Radio TV Handbook
NEWSLETTER

Editor: Jens M. Frost
PO Box 88
2650 Hvidovre
Denmark

May 1976

Dear friends,

This is the first issue of the newsletter, which is conceived as an updater for the details in the WRTH76, and it is my hope that this newsletter helps to fill the gap between the yearly editions of the WRTH, and thus provide a unique service to readers of the 30th anniversary edition.

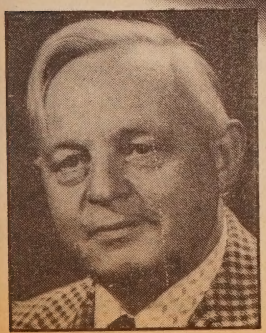
The next issue will be published around August 25th and in case you have further amendments and/or additional details, please let us hear from you not later than by August 10th.

It goes without saying that details received but not included in this newsletter will be used for the WRTH77 now in preparation.

Sincerely yours,

J.M. Frost
Editor

PS: All frequencies listed are in kHz, and all times in GMT.
WRTH covers the period May-August 1976.



The WRTH Newsletter is compiled, produced and edited by **Mr. J. M. Frost,** Editor of WRTH, for over 20 years.

'Exactly what I needed.'
C.M., U.S.A.

. . 'I find (it) extremely useful in this part of the world.' **R.V., Brazil**

'It is an excellent service to those who have a copy of WRTH.'
L.M., New Zealand

'Excellent . . . provides all the information I'm looking for.'
N.G., U.K.

DX-ers!
Send us your news! The WRTH Newsletter will publish it if it is of general interest.

GULF OF MEXICO
NORTH ATLANTIC OCEAN
NORTH PACIFIC OCEAN
CARIBBEAN SEA
U.S.A.
TROPIC OF CANCER
MEXICO
GUATEMALA
BELIZE
EL SALVADOR
HONDURAS (REP.)
NICARAGUA
COSTA RICA
PANAMA
CANAL ZONE
CUBA
HAITI
JAMAICA
DOMINICAN REP.
PUERTO RICO
BAHAMAS
Bahama Islands
NASSAU
Caicos Islands
Turk Islands
Virgin Islands
Leeward Islands
WEST INDIES
Netherlands Antilles
VENEZUELA
COLOMBIA
HABANA
PINAR DEL RIO
SANTA CLARA
COLÓN
S. SPIRITUS
TRINIDAD
CAMAGUEY
HOLGUIN
Pinos
GUANTANAMO
SANTIAGO DE CUBA
CAP HAITIEN
MONTE CRISTI
PUERTO PLATA
GONAIVES
SANTIAGO
PORT AU PRINCE
LA ROMANA
SAN JUAN
MAYAGUEZ
SANTO DOMINGO
LES CAYES
MONTEGO BAY
KINGSTON
THOMAS
ST. MARTIN
SABA
BARBUDA
ST. CROIX
ANTIGUA
ST. KITTS
MONTSERRAT
GUADELOUPE
DOMINICA
MARTINIQUE
Windward Islands
ST. LUCIA
ST. VINCENT
BARBADOS
GRENADA
TRINIDAD & TOBAGO
PORT OF SPAIN
ARUBA
CURACAO
BONAIRE
WILLEMSTAD
CORO
PUERTO CABELLO
LA GUAIRA
CARACAS
CABIMAS
MARACAIBO
BARQUISIMETO
BARCELONA
CUMANA
MATURIN
BARRANQUILLA
CARTAGENA
MERIDA
CUCUTA
BUCARAMANGA
MEDELLIN
MANIZALES
PEREIRA
BOGOTA
BELMOPAN
TIKAL
BELIZE
COBAN
ZACAPA
LA CEIBA
SAN PEDRO SULA
QUEZALTENANGO
ST. BARBARA
GUATEMALA
TEGUCIGALPA
AMAZATENANGO
SANTA ANA
DANLI
SAN MIGUEL
JINOTEGA
SAN SALVADOR
MATAGALPA
LEON
MASAYA
MANAGUA
GRANADA
BLUEFIELDS
RIVAS
LIBERIA
HEREDIA
PUNTARENAS
LIMON
CARTAGO
SAN JOSE
COLON
PANAMA
BALBOA
DAVID
PENONOME
SANTIAGO
CHITRE
90°
75°
60°
15°
CENTRAL AMERICA
0
100
200
300
400
KM

CENTRAL AMERICA & THE CARIBBEAN (incl. Mexico)

ANGUILLA

L.T: GMT–4h – **Pr.L:** English.

RADIO ANGUILLA (Gov.)

ADDR: The Valley, Anguilla. **Te:** 218 – **L.P:** Dir: V. Menes Hodge. Prgr. Contr. & News Editor: N.A. Hodge. Chief Eng: O. Gumbs.
STATION: 1505kHz 0.5W.
HOME SCE. in English: W1030-1330, 1600-1800, 2100-0230, Sun 1600-0230. **N:** 1100, 1300, 1600, 2300. **V.** by letter. All reports will be answered.

ANTIGUA

L.T: GMT–4h – **Pr.L:** English.

ANTIGUA BROADCASTING SERVICE (Gov.)

ADDR: P.O. Box 590, St. Johns Antigua. **Te:** 20112. **Cable:** Broadcasting. –
L.P: Mgr: E.A.M. John. Eng: M. Matthew.
STATION: 620kHz 5kW. **HOME SCE in English:** 1000-0215(Sun 1500-0230). **N.** 1100, 1300*, 1400†, 1600*, 2000* 2310. *)BBC; †)AFRTS. **V.** by letter or QSL-card.

RADIO ZDK (Priv, Comm.)

ADDR: Greenville Radio Ltd, P.O. Box 1100, St. Johns, Antigua. **Te:** 2100. **Cable:** Greenville.
L.P: Gen.Mgr: Ivor Bird.
STATIONS (McKinnon's): ZDK 1100kHz 10kW – **FM:** 99.0MHz.
HOME SCE in English: Mon-Fri 0956-1800, 1900-0504; Sat 0956-0504; Sun 1426-0204 – **N:** 1000, 1100*, 1400†, 1600†, 2000, 2300*, 0000 – **Wrp:** 1100, 1330, 1615. *) BBC; †) AFRTS.
ANN: "Serving the Eastern Caribbean with 10000 watts ZDK" – **F.PL:** 50kW MW and FM-Stereo.

CARIBBEAN RADIO LIGHTHOUSE (Rel.)

ADDR: Box 1057, St. Johns, Antigua.
L.P: Dir: R. Cornelius. Dir.Tec: Curtis L. Waite.
STATION: 1165kHz 10kW.
HOME SCE. in English: W 1000-0215, Sun 1030-1330, 1700-0200.
N: On the h – **V.** by letter.

BBC CARIBBEAN RELAY (Antigua)

2×250kW SW-trs for relays of BBC World Service and Latin American Service in Portuguese and Spanish

kHz	kHz	kHz	kHz
6175	6195	9560	9745

Full details of transmissions are included in the BBC schedule under Great Britain.
The station is also shared with Deutsche Welle for relay of DW-prgrs (see below)

DEUTSCHE WELLE ANTIGUA

(transmitter facilities shared with BBC)

kHz	kHz	kHz	kHz	kHz	kHz	kHz
5960	6085	6145	9590	9640	9690	11810
6040	6100	9545	9605	9680	9735	15185

Full details given under D. Welle, Germany.

BAHAMAS

L.T: GMT–5h – **Pr.L:** English – **E.C:** a/c 60, 110/220V (yes).

BROADCASTING CORPORATION OF THE BAHAMAS

ADDR: P.O. Box N-1347, Nassau. **Te:** 2-4623. **Cable:** ZNS.
L.P: Gen.Mgr: W.N. Wisdom. Dir.Prgrs: C. Bethel. Dir.-Tec: S. Hepburn. Ag.Mgr(ZNS-3): E.E. Bethel.
STATIONS
ZNS1 1540kHz 20kW – FM: 107.1MHz.
ZNS2 1240kHz 1kW – FM: 107.9MHz.
ZNS3 (Freeport) 810kHz 1kW (relay).
HOME SCE. On 1540kHz: 24h. **N:** 0800, 1300, 1830, 2400. On 1240kHz: 24h.
ANN: "This is R. Bahamas". "This is R. New Province". "-This is Northern Service, R. Bahamas" – **V.** by letter. (2 studios in Nassau, 1 in Grand Bahamas).

BARBADOS

L.T: GMT–4h – **Pr.L:** English – **EC:** a/c 50, 110/220V (yes).

CARIBBEAN BROADCASTING CORPO. (Gov, Comm.)

ADDR: P.O. Box 900, Barbados. **Te:** 92041. **Cable:** Cabroco – **L.P:** Gen.Mgr: I. Gale. Dir.Tec: J. Hyndman.
STATION: 900kHz 10kW.
HOME SCE. in English: 0930-0600 – **N:** 1050,1100* 1200, 1300*, 1400, 1500, 1600*, 1700, 1800, 1900, 2000*, 2100*, 2200, 2300*, 0000, 0100, 0300*. *) BBC.
ANN: "This is R. Barbados, 900 on your dial" – **V.** by letter. Rp. – **Fl:** By adv. – **AD:** 12 min's per h.

BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)

ADDR: River Rd, Bridgetown. **Te:** 60820. **Cable:** Rediffusion – **L.P:** Gen.Mgr: F.G. Duesbury. Dir.Tec: J.S.W. Marshall. Dir.Prgrs: F.C. Pardo. **D.Prgr:** 0958-0303 – **N:** (BBC): 1100, 1600, 2000, 2300, 0300.

BELIZE

L.T: GMT—6h – **Pr.L:** English, Spanish – **E.C:** a/c 60, 110/220V (yes).

RADIO BELIZE (Gov, Semi Comm.)

ADDR: P.O. Box 89, Belize. **Te:** 2246. **Cable:** "Radio".
L.P: Dir: E.G. Waight. Prgr.Org: E.E. Usher. Dir.Tec: G.F. Sandiford.
STATIONS: 834kHz 20kW-910kHz (Punta Gorda), 920kHz (Belmopan), 930kHz (Corozal), 3300kHz (all 1kW).
HOME SCE (English, Spanish): 1200-0510 on 834/910kHz, 2100-0510 on 930kHz, 2200-0515 on 3300kHz.
English: 1200-1600, 1700-2200, 0030-0500. **N:** 1245, 1300, 1400, 1500, 1700, 1830, 2000, 2100, 0100, 0200, 0300, 0400, 0500. **Spanish:** 1600-1700, 2200-0030. **N:** 1600, 1650, 1845, 2200, 2300, 2400, 0115, 0400.
ANN: E: "This is R. Belize, Voice of the New Central American Nation of Belize in the heart of the Caribbean Basin" – **V.** by QSL-card. Rec. acc. – **F.PL:** 1kW MW-tr in San Ignacio Town.

Remind your friend about the new edition of the WRTH!

He'll be grateful.

CAYMAN ISLANDS (British)

L.T: GMT–5h – **Pr.L:** English – **E.C:** a/c 60, 110V.

RADIO ICCI-FM (Educ.)

ADDR: The International College of the Cayman Islands, Newlands, Grand Cayman, BWI.
L.P: Pres: Dr. H. Cummings.
STATION: 101.1MHz (stereo).
D.PRGR: 2100-0300. Educational and cultural prgr's only.

RADIO CAYMAN (Comm.)

ADDR: P.O. Box 1110, George Town, Grand Cayman.
L.P: Dir. of Broadc: R.G. Dunlop, M.B.E. Prgr.Contr: L. Banks. Chief News Editor: D. Miller. Eng: L. Tyson.
STATIONS: 1555kHz 10kW – 1205kHz 1kW.
FM: 105.3MHz 0.25kW.
HOME SCE. in English & Spanish: 1100-1430, 1700-1900, 2100-0400 on all freq's.
N: 1300, 1400, 1700, 0000, 0300.
V. by letter. Rec. acc.

COSTA RICA

L.T: GMT–6h – **Pr.L:** Spanish – **E.C:** a/c 60, 120/220V (no).

DEPARTAMENTO CONTROL NACIONAL DE RADIO

ADDR: Ap. 3483, San José. **Te:** 213658. **Cable:** Radcontrol.
L.P: Dir: G. Salgado Sandoval.

EMPRESARIOS RADIODIFUSORAS ASOCIADOS

ADDR: Ap. 2208, San José.
L.P: Pres: O. Sotela.

RADIO CADENA NACIONAL S.A.

ADDR: Ap. 4318, San José. **St's:** 3), 7), 12), 15).

STATIONS: All st's comm. exc. 13), 18), 25) Cultural and 19) Cultural/religious.
Mediumwaves: Call: TI-. °) also on Shortwave.

	Call	kHz	kW	Name and h. of tr.
1)	CAL	525	0.25	R. Rumbo, Cartago: 1100-0500
2)	SBJ	550	10	R. Libertad, San José: 1000-0600
3)	CN	575	12	R. Cucú, San José: 1200-0600
4)	AV	600	5	R. Para-Ti, San José: 1030-0500
5)	XE	625	50	R. Omega, San José: 1130-0500
6)	BAS	650	10	R. Monumental, San José: 1030-0500
3)	JC	675	10	R. Sonora, San José: 1100-0600
7)	HB	°700	10	R. Reloj, San José: 24h
8)	LX	725	2	R. Colombia, San José: 1030-0500
9)	RA	750	3	R. America Latina, San José: 24h
10)	W	775	4.5	R. Uno, San José: 1100-0600
11)	RH	800	5	R. Centro, San José: 24h
12)	OS	825	5	R. Titania, San José: 1200-0600
13)	UCR	°850	1	R. Universidad, San Pedro de Montes de Oca: 1258-0400
6)	GPH	875	1	R. Monumental, Liberia: 1030-0500
14)	CS	900	5	R. Estación X, San José: 1100-0600
3)	CM	925	1	R. Juvenil, San José: 24h
15)	ECO	950	2	R. Eco, San José: 1200-0600
16)	RS	°975	10	R. Centroamericana, San José: 1100-0500
17)	MIL	1000	10	R. Mil, San José: 24h
18)	AC	1025	2	R. Fides, San José: 1100-0400
6)	GPH	1050	1	R. Monumental, San Isidro de Puntarenas: 1030-0500
19)	FC	°1075	5	Faro del Caribe, San José: 1000-0400
8)	RN	1100	1	R. Colombia, San Isidro de El General: 1030-0500
7)	SRHB	°1120	5	R. Ellas/Capital, San José: 0600-0400
6)	GHP	1130	1	R. Monumental, San Carlos: 1030-0500
8)	CA	1160	2	R. Columbia, El Roble: 1030-0500
20)	BB	1200	14	R. BB, San José: 1200-0500 (nom.1180)
21)	Q	°1175	1	R. Casino, Limón: 1100-0600 (nom.1200)
22)	PJ	1220	5	R. Nueva Victoria, San Francisco de Heredia: 1100-0500
8)	LM	1240	1	R. Columbia, Nicoya: 1030-0500
23)	RE	1260	1	R. Emmaus, San Vito de Coto Brus
24)	JJH	1280	1	R. Alajuela, Alajuela: 24h
1)	LC	1300	1	R. Tricolor, Cartago: 1030-0500
8)	LG	1320	1	R. Columbia, Limón: 1030-0500
25)	HR	1340	1	R. Sideral, San Ramón: 1100-0400
6)	MAR	1360	1	R. Monumental, Limón: 1030-0500
8)	LG	1380	1	R. Columbia, Liberia: 1030-0500
26)	CJ	1400	5	R. Sinaí, San I. de El General: 1000-0400
6)	MMC	1420	1	R. Nicoyana, Nicoya: 1030-0500
8)	LS	1460	1	R. Columbia, Ciudad Quesada: 1030-0500
27)	DVC	1463	1	R. San Carlos, San Carlos
8)	EEAW	1480	1	R. Puntarenas, Puntarenas: 1200-0500
8)	LS	1500	1	R. Columbia, San Carlos
28)	ASF	1500	2	R. Cima, Ciudad Quesada: 1000-0500
8)	JJC	1520	1	R. Columbia, Turrialba: 1030-0500
29)	ACA	1540	1	R. Lira, San José: 0000-0300
20)	—	r1560	—	R. Millón, San José

Shortwaves: Call: TI--

	Call	kHz	kW	Name and h. of tr.
7)	HB	4832	1	R. Ellas/Reloj, San José: 24h
21)	Q	5954	1	R. Casino, Limón: 1100-0600 (E: 0500-0600)
7)	HB	6006	1	R. Reloj, San José: 24h
13)	UCR	6105	1	R. Universidad, S. Pedro Montes de Oca: 1400-0500
16)	RS	6150	1	R. Centroamericana, San José: 1100-0400
19)	FC	6175	0.5	Faro del Caribe, San José: 1000-0400
30)	—	r9615	—	R. Millón, San José
19)	FC	9645	0.5	Faro del Caribe: as 6175kHz.

Addresses and other information
1) Ap. 140, Cartago – Dir: C. Lafuente F. (TILG – Dir: J.F. Lafuente).
2) Ap. 4075, San José – Dir: S. Bermúdez J.
3) Ap. 854, San José – Dir: J. Castro (TIJC R. Sonora, TICM R. Juvenil, TICN R. Cucu).
4) Ap. 4666, San José – Dir: A. Vargas.
5) Ap. 8-6300, San José.
6) Ap. 800, San José – Dir: L. de Berrocal.
7) Ap. 341, San José – Dir: R. Barahona G.
8) Ap. 708, San José – Dir: C. Alfaro.
9) Ap. 2525, San José – Mgr: J. Ramón Aguilar V.
10) Ap. 835, San José – Dir: C.M. Vicente C.
11) Ap. 6133, San José – Owners: J. and R. Hernández.
12) Ap. 10279, San José – Dir: M. Sotela P.
13) Ap. 2198, San José – Dir: I. Bonilla.
14) Ap. 4470, San José – Dir: H. Fonseca.
15) Ap. 512, San José – Dir: F. Carazo.
16) Ap. 6760, San José – Dir: J.L. Ortiz.
17) Ap. 10.001, San José – Dir: R. Giralt C.
18) Ap. 5079, San José – Dir: C. Peña.
19) Ap. 2710, San José – Mgr: A. Munoz. **N:** 1300(W), 1600(W), 1745(Mon-Fri), 0310(Mon-Fri). **English:** 1300(W), Mon-Fri 0315-0430(Sat 0445).
20) Ap. 10.319, San José – Dir: A. Cubillos.
21) Ap. 287, Puerto Limón – Dir: L. Grau V.
22) Ap. 76, Heredia – Dir: E. Piedra J.
23) San Vito de Coto Brus – Adm: R. Marín P.
24) Ap. 122, Alajuela – Dir: R. Herrera C.
25) Ap. 73, San Ramón – Mgr: T. Retana C.
26) Ap. 262, San Isidro de El General – Dir: A. Coto O.
27) San Carlos – Dir: M. del Valle.
28) Ap. 28, Cd. Quesada – Dir: L. Quesada A.
29) Calle 3 No. 2627, San José – Dir: A. Céspedes A.
30) Ap. 4318, San José.

CUBA

L.T: GMT–5h (April-Sept.; GMT–4h) – **Pr.L:** Spanish.

MINISTERIO DE COMUNICACIONES

Dirección General de Telecomunicaciones
ADDR: Plaza de la Revolución, "Jose Marti", La Habana.
Cable: genpostel.

INSTITUTO CUBANO DE RADIODIFUSION

Edif. Radiocentro, 23 L y Vedado, Habana 4.

STATIONS

Mediumwaves: Call: CM-. †) La Voz de Cuba Relay.

	Call	kHz	kW	Location
1)	AN	†550	30	Pinar del Rio
1)	KV	560	1	Santiago de Cuba
1)	HI	570	60	Santa Clara
1)	JM	580	0.5	Ciego de Avila
1)	W	†590	150	S. Ant. de las Vegas
1)	KV	†600	150	San Germán
1)	KF	620	1	Baracoa
2)	HQ	†630	50	Santa Clara
2)	Q	†640	50	La Habana
2)	DV	640	1	Guantánamo
2)	KU	650	2	Santiago de Cuba
3)	HG	660	10	Santa Clara
3)	KP	670	50	S. Pedro de Cacocum
3)	HN	680	1	Cienfuegos
3)	DB	680	1	Santiago de Cuba
3)	BC	690	50	La Habana
3)	JT	700	5	Ciego de Avila
3)	DU	710	0.25	Guantánamo
1)	GN	†720	30	Colón
3)	KJ	730	10	Holguín
2)	AQ	740	1	Pinar del Río
2)	JL	†740	10	Camagüey
4)	CI	760	10	La Habana
5)	KB	770	1	Las Mercedes
1)	JN	780	60	Camagüey
6)	CH	790	10	La Habana
3)	JE	810	1	Camagüey
7)	CA	820	10	La Habana
3)	DT	820	1	Bayamo
8)	H	840	10	Santa Clara
5)	KC	840	2	Santiago
5)	DC	851	1	Holguín
9)	JY	860	1	Ciego de Avila
10)	BL	870	1	La Habana
1)	DN	†870	10	Guantánamo
3)	AF	880	10	Pinar del Río
11)	HD	890	1	Santa Clara
11)	DZ	890	0.25	Santiago de Cuba
2)	JV	†900	1	Ciego de Avila
11)	JB	910	1	Camagüey
9)	FA	910	5	Camagüey
11)	KH	920	0.25	Guantánamo
11)	AG	930	0.25	Consolacion del Sur
4)	GL	930	1	Matanzas
8)	HP	940	0.25	Sancti-Spiritus
11)	BF	950	10	La Habana
3)	HB	960	1	Sancti-Spiritus
5)	DJ	980	0.25	Guantánamo
12)	CK	980	5	La Habana
13)	HT	990	1	Sancti-Spiritus
14)	AP	1000	0.25	Guane
14)	AS	1010	0.25	Pinar del Río
11)	KM	1010	5	Holguín
14)	AC	1019	1	San Cristóbal
15)	BN	1040	1	Isla de la Juventud
5)	KG	†1059	1	Baracoa
16)	BQ	1060	5	La Habana
17)	HU	1100	1	Cienfuegos
18)	DL	1120	1	Holguín
19)	HA	1130	1	Santa Clara
20)	JK	1140	0.5	Camagüey
21)	DO	1150	0.25	Banes
22)	AD	1160	1	Artemisa
4)	EM	1180	—	Isla de los Pinos
23)	JP	1190	0.5	Ciego de Avila
4)	KL	1200	2	Santiago de Cuba
24)	JX	1210	0.25	Morón
4)	KD	1210	1	Holguín
25)	GY	1220	5	Perico
25)	GM	1230	0.25	Jagüey Grande
25)	GW	1240	0.15	Matanzas
5)	KE	1240	0.25	Victoria de las Tunas
25a)	HS	1250	5	Caibarien
4)	KA	1250	0.25	Guantánamo
4)	AX	1260	1	Consolación del Norte
4)	DE	1260	0.25	Bayamo
4)	JG	1269	1	Camagüey
4)	DP	1280	0.25	Victoria de la Tunas
4)	HM	1280	1	Santa Clara
26)	KS	1290	0.25	Guantánamo
27)	JQ	1300	1	Nuevitas
11)	JD	1300	0.25	Ciego de Avila
4)	HK	1308	0.25	Cruces
5)	DD	1310	0.25	Bayamo
36)	JW	1312	—	Sta. Cruz del Sur
4)	AL	1320	0.25	Pinar del Río
27a)	KQ	1320	0.25	San Luis
4)	JS	1330	0.5	Ciego de Avila
4)	GU	1340	0.25	Colón
28)	—	1340	1	Guantánamo Bay, N.B.
29)	KY	1350	0.25	Puerto Padre
30)	BG	1360	0.25	La Habana
31)	KW	1370	1	Santiago de Cuba
32)	KX	1390	0.25	Bayamo
33)	JI	1400	0.25	Florida
34)	DX	1420	0.25	Baracoa
35)	KZ	1430	0.25	Palma Soriano
37)	CG	1460	0.25	Mariano
38)	GE	1470	0.25	Cárdenas
39)	KT	1520	1	Victoria de las Tunas
40)	DV	1550	0.25	Santiago de Cuba
4)	GB	1560	0.25	Cárdenas
41)	DF	1590	0.25	Manzanillo

Addresses and other information

D.PRGR: all st's 10.00-0500, unless otherwise stated.
La Voz de Cuba, Ap. 60-17, La Habana, is a complementary early-morning prgr. of music, news and commentary. Is aired over a network of some of Cuba's high powered st's and generally operates 05.00-10.00.

1) R. Rebelde, Calle M 23 y 21, Vedado, La Habana. 24h.
2) R. Liberación, Calle M esq.a 23, Vedado, La Habana. 24h.
3) R. Progreso, Avda. Menocal 105, La Habana. 24h.
4) R. Reloj Nacional, Edit. Radiocentro, Calle 23 258 entre L y M Vedado, La Habana. 24h. Continuous prgr. of N. under rhythm of clock ticks every second Time every min.
5) R. Revolución (Cadena Provincial del Oriente).
6) R. Cadena Habana.
7) R. Cordón de la Habana, Edif. "N", Calle N esq. a 23, Vedado, La Habana. 1000-0500. **English:** 1100-0600 exc. for bilingual news.
8) Dobleve (W), La Frecuencia del Azúcar – R. CMHW, Ap. 376, Sta. Clara.
9) R. Cadena Agramonte (Cadena provincial de Camagüey).
10) R. Internacional.
11) R. Musical Nacional, Calle M esq. a 23 Vedado. La Habana. 1200-0500(classical music only).
12) El Periódico del Aire.
13) R. Sancti-Spiritus.
14) R. Guamá (Cadena Provincial del Pinar del Rio).
15) R. Caribe (Le Voz de la Isla Juventud).
16) R. Enciclopedia Nacional. 24h.
17) R. Ciudad del Mar – 18) R. Holguin – 19) Onda Musical – 20) R. Camagüey – 21) R. Banes – 22) R. Artemisa – 23) R. Surcos – 24) R. Morón – 25) R. Veintiséis – 25a) R. Dobleve, Caibarien – 26) R. Guantánamo – 27) R. Nuevitas – 27a) R. Canoa – 28) AFCN (US Navy) – 29) R. Puerto Padre – 30) R. Popular – 31) R. Siboney – 32) R. Bayamo – 33) R. Centro de Florida – 34) La Voz de Baracoa – 35) R. Baragua – 36) Sta. Cruz – 37) R. Mariano – 38) R. Ciudad Bandera – 39) R. Victoria – 40) R. Santiago – 41) R. Manzanillo.

RADIO HABANA, Cuba

ADDR: Apartado 7062, La Habana
STATIONS (G.C: 82.30W/23.00N)

kHz	kW	kHz	kW	kHz	kW
6060	10/50	11725	100	15340	50
9525	50	11760	50	17705	50
9655	10/50	11865	100	17750	50
9685	50	11970	50	17885	100
9715	100	15230	100		

I=No. Europe – II=Mediterranean – III=No. America – IV=Caribbean – V=So. America – VI=No. Ce. and So. America.

English	Area	kHz
2010-2140	I	17885
2050-2150	VI	11865
		17750
0100-0450	VI	9685
0100-0600	VI	11725
0330-0600	VI	11760
0630-0800	III	9525
French		
0830-0930	II	9715
1700-1840	II	15320
		15230
1900-2010	I	17885
2110-2140	II	15230
0300-0330	III	11760
Creole		
1100-1200	IV/V	6060
0200-0300	IV/V	6060

Guarani	Area	kHz
2200-2300	V	15340
Quechua		
1000-1050	V	11760
2200-2300	V	15230
Portuguese		
0730-0830	II	9715
0900-1000	V	11930
2300-2400	V	15340
Arabic		
2040-2140	II	15230
		15340
Spanish		
0630-1730	II	9715
0930-1045	II	9715
1840-2040	II	15230
		15340

Spanish to the Americas

	kHz
1100-1645	9550,11760,11865,15230,17705,17750
1645-1830	11760,11865,17750
1830-2050	11865,17750
2200-2300	6060,9525,9655,11760,11970
2300-2400	6060,9525,9655,11760,11970,15230
0000-0050	6060,9525,9655,11760,11970,15230,15340
0050-0200	6060,9655,11760,11970,15230,15340
0200-0300	9655,11760,11970,15230,15340
0300-0600	6060,9525,9655,11970,15230

V. by QSL-card – **Pub:** Prgr. schedule free on request.

AFRTS STATIONS (US Navy)
ADDR: FPO New York 09593, USA
STATION: Guantanamo Bay 1340kHz 1kW + FM: 102.2MHz 0.05kW – **D.PRGR:** 24h.

DOMINICA

L.T: GMT–4h – **Pr.L:** English.

DOMINICA BROADCASTING CORPORATION (Gov.)

ADDR: Victoria Str, Roseau, Dominica.
L.P: Gen.Mgr: Dennis Joseph.
STATION: 595kHz 10kW.
HOME SCE. in English: 0930-0230. **N:** On the h.
French Patois (local dialect): Fri/Sat 2100-2200.
F.PI: 20kW on 595kHz.

RADIO JUMBO (Priv. Comm.)

ADDR: B.P. 00, Roseau, Dominica. **Te:** 3111. **Telex:** 616 Jumbo Dom Do.
L.P: Owner: Christian Techner. Dir.Gen: Patrick Meyer.
STATION: "Morne Daniel" 545kHz 50kW.
(Studios: Two in Dominica + one in Paris).
HOME SCE. in French: 1000-0230.
N: 1700, 2230, 0200. **N. headlines:** On the h. (exc. 1700, 0200) and 1030, 1130.
ANN: "Vous écoutez R. Jumbo". **V.** by letter. Rec. accepted.
Comm. Service: Regie Jumbo, 14 rue de la Néva, F-75008 Paris, France. **Te:** 7665020. **Telex: 640.698.**

DOMINICAN REPUBLIC

L.T: GMT–4h – **Pr.L:** Spanish – **E.C:** a/c 60, 115/230V (yes).

DIRECCION GENERAL DE CORREOS Y TELECOMUNICACIONES

ADDR: Santo Domingo. **Te:** 682-2244. **Cable:** Telcom – **L.P:** Dir.Gen: V. Hidalgo J.

STATIONS: Mediumwaves: Call: HI—; Pto=Puerto; Sto=Santo; S=San; °=Shortwave.

	Call	kHz	kW	Name and h. of tr.
1)	CM	540	5	R. ABC, Sto. Domingo: 0900-0500
2)	AA	°560	5	R. Ritmos, Santiago: 0930-0400
3)	MS	°570	5	R. Cristal, Sto. Domingo: 1000-0500
4)	DV	590	10	R. Santa María, La Vega: 0900-0200
5)	SD	°620	10	R. TV Dominicana, Sto. Domingo: 0930-0400
6)	AF	°630	1	R. Monte Cristi: 1000-0200
7)	AT	650	5	R. Universal, Sto. Domingo: 1000-0400
8)	AM	660	2	R. Quisqueyana, Santiago: 0930-0400
9)	SB	670	1	R. HIJB, San Pedro de Macorís
10)	JX	680	3	R. Zamba, Santiago Rodríguez: 0900-0200
11)	AW	690	5	R. Guarachita, Sto. Domingo: 0900-0400
12)	DC	700	1	R. Mao, Valverde: 1100-0100
13)	AQ	°720	5	R. Norte, Santiago: 0900-0500
14)	Z	730	5	Broadc. Nal, Sto. Domingo: 1000-0300
15)	DB	°750	5	R. Libertad, Santiago: 0900-0400
16)	MD	770	0.5	R. Tamboril, Peña: 1000-0200
17)	BO	780	1	R. Constanza: 1200-0200
18)	L	790	5	La Voz del Trópico, Sto. Domingo: 0900-0400
19)	AZ	°820	5	R. Santiago: 0930-0400
9)	JB	830	10	R. HIJB, Sto. Domingo: 0900-0400
20)	AB	840	0.5	R. Isabel de Torres, Pto. Plata: 1000-0200
21)	LR	°860	50	R. Clarín, Sto. Domingo: 24h
22)	OR	880	1	R. Sta. Cruz de Mao, Valverde: 0900-0200
23)	PJ	890	5	R. Continental, Sto. Domingo: 0930-0430
24)	BN	900	1	R. Puerto Plata: 0900-0300
25)	DE	910	0.5	R. Tiempo, S. Francisco de Macorís: 1000-0400
26)	BA	920	5	R. Popular, Sto. Domingo: 1100-0200
27)	CK	930	5	Ondas del Yaque, Santiago: 0930-0400
28)	G	950	1	R. Fiesta, Sto. Domingo: 1000-0300
29)	F	°960	1	La Voz del Atlántico, Pto. Plata: 1000-0200
30)	SA	980	1	R. Cibao, Santiago: 1000-0200
31)	HG	1000	1	R. Beler, Dajabón: 1000-0200
32)	JP	°1010	10	R. Comercial, Sto. Domingo: 0900-0600
33)	DL	1030	5	R. Novedades, La Vega: 0900-0430
34)	ON	1040	1	R. Central, Sto. Domingo: 1000-0400
35)	CB	1050	1	La Voz de la Hispañiola, Santiago: 1000-0200
36)	RV	1060	1	Radiomar, San Pedro de Macorís: 0900-0300
9)	JB	1060	1	R. HIJB, Barahona
37)	BI	1070	5	HIBI Radio, S. Francisco de Macorís: 1000-0400
38)	MC	1080	0.5	R. Programas Quisqueya, Sto. Domingo: 1000-0200
39)	JM	1090	3	R. Amistad, Santiago: 0830-0300
40)	HD	1100	1	R. Oriente, San Pedro de Macorís: 1000-0300

	Call	kHz	kW	Name and h. of tr.
41)	PS	1100	5	R. Nagua, Nagua: 0900-0200
42)	JJ	1110	0.5	R. Jarabacoa, Jarabacoa: 1000-0300
43)	CN	°1120	5	R. Antillas, Sto. Domingo: 0930-0400
44)	RL	°1130	1	R. Exitos, Santiago: 1100-0400
45)	AS	°1150	1	Onda Musical, Sto. Domingo: 0930-0400
46)	BG	1160	5	Radiolandia, Santiago: 0900-0400
47)	BE	°1180	10	R. Mil, Sto. Domingo: 1000-0400
48)	VP	1190	1.5	R. Cumbre, Villa Tapia: 0900-0400
49)	BS	1200	1	R.23, San Pedro de Macorís: 1000-0400
50)	MR	1200	1	R. Monte Río, Azua: 1000-0300
51)	CJ	1210	5	R. Merengue, S. Francisco de Macorís: W 1200-0200
52)	N	°1220	10	R. HIN, Sto. Domingo: 1100-0500
9)	NG	1230	1	R. Ideal, Moca: 0900-0400
53)	AU	°1240	3	La Voz de la Libertad, Pto. Plata: 0900-0300
54)	CB	1240	1	R. Barahona, Barahona: 0900-0300
55)	BC	°1250	1	La Voz del Progreso, San Francisco de Macorís: 1000-0300
56)	T	1260	1	R. Visión, Sto. Domingo: 0930-0400
5)	SD	1270	1	R. TV Dominicana, Santiago: 0930-0400
57)	TA	1270	1	R. Ambiente, Baní: 0930-0300
58)	VM	1290	1	R. Bonao, Bonao: 1000-0200
59)	VD	1290	0.5	R. Jánico, Jánico: 1000-0130
60)	KQ	1300	1	R. Radio, Sto. Domingo: 0900-0400
61)	HM	1310	0.5	R. Real, La Vega: 1100-0200
5)	SD	1310	1	R. TV Dominicana, El Seibo: 0930-0400
5)	SD	1310	1	R. TV Dominicana, Pedernales
62)	AV	1320	1	R. Baní, Baní: 1100-0200
63)	FA	1330	5	La Voz de las Fuerzas Armadas, Moca: 1000-0400
64)	MP	1340	0.25	R. Ocoa, San José de Ocoa: 1200-0200
65)	BZ	1340	1	R. Centro, San Juan de la Maguana: 1100-0300
66)	XZ	1350	1	R. Listin, Sto. Domingo: 1100-0400
67)	MG	1360	1	R. Rutas Musical, La Romana: 0900-0400
5)	SD	1360	0.25	R. TV Dominicana, La Vega: 0930-0400
5)	SD	1360	1	R. TV Dominicana, Monte Cristi
5)	SD	1370	1	R. TV Dominicana, Barahona: 0930-0400
63)	FA	1380	5	La Voz de la Fuerzas Armadas, Sto. Domingo: 1000-0400
68)	SC	1380	5	R. Nacional, Santiago: 1000-0400
5)	SD	1390	1	R. TV Dominicana, Pto. Plata: 1000-0400
69)	AL	1400	1	Ondas del Valle, La Vega: 1100-0200
70)	AE	1410	5	R. Tricolor, Sto. Domingo: 1000-0300
71)	RM	1410	0.5	R. Sol, Higüey: 1000-0300
72)	ED	1420	0.25	R. Oro, Cotuí: 0900-0200
73)	GA	1420	0.5	R. Guarocuya, Barahona: 1000-0400
74)	VG	1430	3	R. La Vega, La Vega: 1000-0400
75)	FS	1440	1	R. Bahía, Nagua: 1000-0230
76)	AD	°1440	1	R. San Juan, San Juan: 1100-0200
77)	AK	1440	0.5	Mi Radio, Sto. Domingo: 1000-0300
78)	LF	1440	0.5	R. Cayacoa, Higüey: 1000-0400
79)	AR	1450	0.5	R. San Cristóbal, S. Cristóbal: 1100-0200
80)	AC	1450	0.25	R. Salcedo, Salcedo: 1000-0300
81)	AN	1460	0.5	R. Maguá, Hato Mayor: 0900-0300
82)	AG	1470	5	R. Azul, Santiago: 1000-0400
83)	AH	1480	1	R. Uno, Sto. Domingo: 0900-0500
84)	AP	1490	0.5	R. Generación, Moca: 1100-0300
85)	KF	1490	1	R. Azua: 1100-0200
86)	RP	1490	1	R. El Seibo, El Seibo: 0900-0230
87)	BL	1510	10	R. Pueblo, Sto. Domingo: 1000-0400
88)	BD	°1540	1	La Voz de la Romana: 0900-0300
89)	FB	1540	1	R. El Mundo, Sto. Domingo: 1000-0400
90)	JC	1550	1	R. Maibá, Santiago: 1000-0400
91)	PZ	1560	0.5	R. Pedernales: 1000-0200
92)	AJ	1570	1	R. Turismo, Sto. Domingo: 1000-0400
93)	RJ	1570	1	R. Juventud, La Romana: 0930-0400
94)	PK	°1580	1	R. Neyba, Neyba: 1000-0200
95)	WJ	1580	0.5	R. Samaná, Samaná: 1000-0200
96)	DA	°1590	3	R. Hit Musical, Santiago: 0930-0300
97)	EG	1600	5	R. Fémina, Sto. Domingo: 1145-0400

Shortwaves: Call HI--

53)	AU	3205	1	La Voz de la Libertad, Pto. Plata: 0900-0300
15)	DB	3215	0.5	R. Libertad, Santiago
53)	AU	r3225	1	La Voz de la Libertad, Pto. Plata
2)	AA	3315	1	R. Ritmos, Santiago: irr.
88)	BD	3355	1	La Voz de la Romana, La Romana
44)	RL	3365	1	R. Exitos, Santiago: irr.
76)	—	3375	1	R. San Juan, S. Juan: 1100-0200
96)	DA	3385	0.6	R. Hit Musical, Santiago: irr.
98)	FE	4750	1	R.HIFE, Sto. Domingo
13)	—	r4750	1	R. Norte, Sto. Domingo
45)	AS	4785	1	Onda Musical, Sto. Domingo: 0930-0330
13)	—	4805	1	R. Norte, Santiago
63)	FA	4825	3	La Voz de las Fuerzas Armadas, Sto. Domingo
21)	LR	4850	3	R. Clarín, Sto. Domingo: 24h
55)	BC	4860	1	La Voz del Progreso, S. Francisco de Macorís: 1000-0300
32)	JP	4882	1	R. Comercial, Sto. Domingo: 0900-0400
52)	N	4910	1	R. HIN, Sto. Domingo: irr.
47)	BE	4930	1	R. Mil, Sto. Domingo: 1000-0400
43)	CN	4960	1	R. Antillas, Sto. Domingo: irr.
94)	—	r4987	1	R. Neyba, Neyba
3)	MI	5010	1	R. Cristal, Sto. Domingo: 24h
99)	BB	5030	1	La Nueva Voz del Papagayo, La Romana: 24h
5)	SD	5967	50	R. TV Dominicana, Sto. Domingo
53)	AU	r6218	0.5	La Voz de la Libertad, Pto. Plata
5)	SD	9505	50	R. TV Dominicana, Sto. Domingo
21)	LR	11700	50	R. Clarín, Sto. Domingo: 24h

Addresses and other information

1) Aníbal Espinosa 102, Villas Agrívolas, Sto. Domingo – Dir: J. Nova R.
2) Ap. 581, Santiago – Dir: J.W. Streese.
3) Ap. 819, Sto. Domingo – Dir: E. Dickson.
4) Ap. 55, La Vega – Dir: A. Cabezas E.
5) Ap. 965, Sto. Domingo – Dir.Gen: R.A. Font B. Mgr: Sra. A. Almánzar B. Dir.Tec: M. Cabral – **English:** 0215-0230.
6) Ap. 52, Monte Cristi – Dir: R.O. Moscoso.
7) Hotel Jaragua, Av. Independencia, Sto. Domingo – Dir: P.M. Santana.
8) Ap. 26, Santiago – Dir: M. Tulio Cepeda.
9) Ap. 416, Sto. Domingo – Dir: P. María Ornes.
10) Ap. 2, Santiago Rodriguez – Dir: M. de Js. Thomas B.
11) Calle Palo Hincado 74, Sto. Domingo – Dir: R.A. Aracena.
12) Calle Duarte 49, Mao – Pres: J. Raposo P.
13) Calle Pedro Fco. Bonó 58, Santiago – Owner: A. Pérez.
14) Calle El Conde 401, Edif. Copello, Apto. 201, Sto. Domingo – Dir: F. Hatton.
15) Ap. 112, Santiago – Dir: A. Vanderhorst.
16) Calle Real 125, Tamboril – Dir: A. Dajer B.
17) Calle Duarte 17 esq. Salomé Ureña de Henriques, Constanza – Dir: M. Tactuk.
18) Ap. 335, Sto. Domingo – Dir.Gen: V. Portalatín.
19) Ap. 282, Santiago – Dir: L.F. Moscoso.
20) Calle Antera, Mota 20, Pto. Plata – Dir: A.D. Brisso B.
21) Ap. 205, Zona 2, Sto. Domingo – Dir: S. Sanz.
22) Ap. 80, Valverde – Dir: G. Aquino R.
23) Ap. 156, Sto. Domingo – Dir: P. Justiniano P.
24) Ap. 183, Pto. Plata – Dir.Gen: Waldo R. Musa.

25) Calle Frank Grullón, Esq. José Reyes, San Francisco de Macorís.
26) Ed. Brugal, Av. J.F. Kennedy, Sto. Domingo – Dir: A. Corporán.
27) Ap. 225, Santiago de los Caballeros – Dir.Gen: R. Candelario L.
28) Ap. 238, Sto. Domingo – Dir.Gen: A. Cordero P.
29) Calle John F. Kennedy 21, Pto. Plata – Pres: A. Badul.
30) Ap. 141, Santiago – Dir: E. Pou.
31) Av. José Gutierrez, Dajabón – Dir: A. García.
32) Ap. 1322, Sto. Domingo – Dir: J.A. Brea Peña.
33) Ap. 267, La Vega – Dir: R.A. Tavarez C.
34) Ap. 1270, Sto. Domingo – Dir: R. Arecena.
35) Ap. 454, Santiago – Dir: J.L. Sánchez.
36) Ap. 476, San Pedro de Macorís – Dir: D. Aguilo Hidalgo.
37) Ap. 201, San Francisco de Macorís – Dir: J.A. Gonzalez.
38) Edif. Jaar, Calle El Conde Esq. Espaillat, Sto. Domingo – Dir: V.M. Furment U.
39) Ap. 561, Santiago – Dir.Gen: J.E. McDougal G.
40) Ap. 554, San Pedro de Macorís – Dir: F.M. Donastorg.
41) Calle Colón 66, Nagua – Pres: P. Riggio.
42) Ap. 10, Jarabacoa – Dir: J.J. Batista.
43) Ap. 389, Sto. Domingo – Dir: M. Zaglul.
44) Calle El Sol 42, Santiago – Dir: D. de la Rosa.
45) Ap. 860, Sto. Domingo – Mgr: M. Báez A.
46) Ap. 187, Sto. Domingo – Pres: Waldo Pons C.
47) Ap. 1372, Sto. Domingo – Dir: J. Jiménez M.
48) Av. Duarte 35, Villa Tapia – Mgr: P. Jimenez.
49) Ap. 504, San Pedro de Macorís – Dir: E.A. Alba G.
50) Ap. 260, Azua – Dir: R.Z. Lama J.
51) Ap. 57, San Francisco de Macorís – Dir: E.P. Almonte G.
52) Ap. 1220, Sto. Domingo – Dir: P.P. Bonilla.
53) Ap. 244, Pto. Plata – Dir.Gen: L.A. Pellegrin.
54) Ap. 201, Barahona – Dir: R. Lama J.
55) Ap. 264, San Francisco de Macorís – Dir: J. Raposo P.
56) Calle Hermanos Deligne 32, Sto. Domingo – Pres: J.O. Brea.
57) Ap. 12, Baní – Dir: R. Cintrón.
58) Calle Libertad 15, Bonao – Dir: M.E. Bello.
59) Av. Libertad 2, Jánico – Dir: A. Casanova.
60) Ap. 209, Sto. Domingo – Dir: R.A. Martínez G.
61) Calle J. Rodriguez 76-A, La Vega – Dir: F. Holguín.
62) Calle Duarte 27 Sur, Baní – Dir: M.E. Bello.
63) Ap. 1350, Sto. Domingo – Dir.Gen: F.T. Baez Berg
64) Calle Sánchez 16, San José de Ocoa – Dir: F.A. Isa P.
65) Ap. 65, San Juan de la Maguana – Dir: I. Aquiles R.
66) Ap. 68, Sto. Domingo – Dir: L.O. Ureña.
67) Ap. 110, La Romana – Dir: J. Garib M.
68) Ap. 11, Santiago.
69) Ap. 102, La Vega – Dir: D. Valerio.
70) Calle 18 No. 158, Ens. la Fe, Sto. Domingo – Dir: H. Hernandez L.
71) Ap. 1311, Higüey – Dir: R. Morales.
72) Calle 27 de Febrero 53, Coutí – Dir: P.S. Inoa.
73) Carretera Enriquillo 18, Barahona.
74) Ap. 203, La Vega.
75) Calle Duarte 56, Nagua – Dir: J. Fco. Santos H.
76) Ap. 88, San Juan – Dir: Dr. L.P. Gonzáles.
77) Calle Mercedes 464, Sto. Domingo.
78) Ap. 1222, Higüey – Pres: L.F. Rijó.
79) Calle General Leger 24, San Cristóbal – Dir: V. Cabreja.
80) Salcedo.
81) Ap. 304, Hato Mayor – Dir: E.F. Astacio.
82) Ap. 14-70, Santiago – Dir: L. Atiles.
83) Calle César Nicolás Penson 157, Sto. Domingo – Pres: C. Solano.
84) Calle Duarte 94 (El Caimito), Moca – Dir: G. Nunez.
85) Calle Francisco del Rosario Sánchez 6, Azua – Dir: J.A. Félix A.
86) Ap. 266, Sta. Cruz del Seybo – Dir: J. Manuel Pérez.
87) Ap. 1099, Sto. Domingo – Owner: P. Pou S.
88) Calle Gral. Luperón 8, La Romana – Pres: N. Mariñez.
89) César Nicolás Penson 157, Sto. Domingo.
90) Ap. 42, Santiago – Dir: J. Caballero.
91) Av. Duarte 1, Pedernales – Dir: R.Z. Lama Jaar.
92) Ap. 197, Sto. Domingo – Dir: L.G. Rosario S.
93) Ap. 151, La Romana – Dir: F. Micheli V.
94) Ap. 41, Neyba – Dir: R. Lama Jaar.
95) Ap. 124, Samaná – Dir: F. del Toro.
96) Ap. 513, Santiago – Dir.Gen: M.A. Jorge A.
97) Av. Primera 15, Ensanche Ozama, Sto. Domingo – Dir: L. Morel.
98) Av. Primera 15, Ensche Ozama, Sto. Domingo – Dir: L. Morel.
99) Ap. 2, La Romana – Dir: J.M. Rivero Rojas.

EL SALVADOR

L.T: GMT–6h – **Pr.L:** Spanish – **E.C:** a/c 60, 110/220V (yes).

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES

Centro de Gobierno, San Salvador.
Cable: Presantel – **L.P:** Tte. Cnel. José G. García.
Gen.Mgr: Jaime Abdul Gutiérrez.

ASOCIACION SALVADOREÑA DE EMPRESARIOS DE RADIODIFUSION

ADDR: Ap. Postal 210, San Salvador – Pres: A. Rivas C.

STATIONS: All st's comm. exc. 6), 44) (Cultural), 35) (Religious).
H. of tr: 1100-0500 exc. where indicated

	Call	kHz	kW	Name, location and h. of tr.
1)	FG	550	0.5	R. Variedades, Sonsonate
2)	ABC	560	5	R. Cadena YSU, San Miguel
3)	DR	580	1	R. Cadena Central, Santa Ana: 1100-0600
3)	Z	580	10	R. Cadena Central, San Salvador: 1100-0600
4)	NK	600	5	R. Exitos, San Salvador: 1130-0600
5)	LN	630	10	R. 630, San Salvador: 1100-0600
6)	S	°655	10	R. Nacional de El Salvador, San Salvador: 1100-0600
7)	QR	700	5	Auto Radio, San Salvador: 1200-0500
8)	RS	710	1	Cir. YSR, Sonsonate: 1100-0600
8)	RA	720	5	Cir. YSR, Santa Ana: 1100-0600
8)	RU	720	1	Cir. YSR, Usulután: 1100-0600
8)	R	730	10	Cir. YSR, San Salvador: 1100-0600
8)	RM	740	5	Cir. YSR, San Miguel: 1100-0600
9)	KLC	760	10	R. Cadena YSKL, Sonsonate: 1100-0600
9)	KLB	760	5	R. Cadena YSKL, San Miguel: 1100-0600
9)	KLF	760	1	R. Cadena YSKL, Chalatenango: 1100-0600
9)	KL	770	10	R. Cadena YSKL, San Salvador: 24h
9)	KLE	770	1	R. Cadena YSKL, Ahuachapán: 1100-0600
9)	KLA	780	10	R. Cadena YSKL, Santa Ana: 1100-0600
9)	KLD	780	10	R. Cadena YSKL, Usulután: 1100-0600
10)	AX	800	10	La Voz Panamericana, San Salvador: 1000-0400
11)	FA	810	1	R. Lorenzana, San Vicente: 1000-0500
3)	KT	820		R. Cadena Central, San Salvador: 1100-0600
12)	PX	830	4	R. Pax, San Miguel
13)	F	840	5	R. Vanguardia, San Salvador: 1100-0600
14)	RC	860	1	R. Tecana, Santa Ana
15)	AR	870	1	R. 10, San Salvador: 1200-0600
16)	CD	880	0.5	R. Oromontique, Santiago de Maria
17)	LA	890	1	R. Musical, Santa Ana
18)	QJ	910	10/1	Radiópolis, San Salvador:
2)	W	930	1	R. Cadena YSU, Santa Ana: 1100-0600
19)	TG	940	2.5	R. Sonora, San Salvador: 1100-0600
20)	GH	950	1	R. Minuto, San Miguel
21)	TW	960	0.25	R. Centro, Sonsonate
22)	MS	970	1	R. Centroamericana, San Salvador: 1100-0600

	Call	kHz	kW	Name, location and h. or tr.
19)	TGB	980	1	R. Sonora, Zacatecolua: 1100-0600
19)	TGC	980	1	R. Sonora, San Miguel: 1100-0600
28)	AN	980	1	La Voz de los Ausoles, Ahuachapán: 1100-0600
24)	TA	990	5	La Exquisita, San Salvador: 1200-0600
25)	C	1015	10	R. Internacional, San Salvador
2)	U	1050	10	R. Cadena YSU, San Salvador
2)	UA	1050	10	R. Cadena YSU, Ahuachapán
2)	UC	1050	1	R. Cadena YSU, Usulután
2)	US	1050	1	R. Cadena YSU, Sonsonate
26)	EM	1080	1	R. 1080, San Salvador: 1200-0600
27)	MG	1090	10	La Voz del Espino, Ahuachapán
28)	RF	1100	1	R. Femenina, San Salvador: 1200-0600
29)	LR	1120	1	La Romántica, San Salvador: 1200-0600
30)	G	1130	1	R. Chaparrastique, San Miguel
31)	T	1140	10	R. El Mundo, San Salvador: 1200-0600
32)	CF	v1155	1	Ondas Orientales, San Miguel
33)	MM	1160	2	R. Libertad, San Salvador: 1100-0600
34)	CB	1175	0.5	La Voz del Pacifico, Sonsonate
35)	VE	1180	2	La Voz Evangélica de América, San Salvador: 1100-0600
36)	DL	1200	1	R. Latina, San Salvador
37)	CG	1210	0.5	R La Paz, Zacatecoluca
38)	NB	1220	1	R. Recuerdos, San Salvador: 1130-0500
39)	A	1250	3	R. Teatro, San Salvador: 1100-0600
40)	QZ	1270	0.5	R. Doce Sesenta, San Miguel
41)	V	°1280	1	R. Comercial, Santa Ana
42)	MA	1290	3	R. Chalatenango
43)	LV	1300	2	La Versátil, San Salvador: 1100-0600
44)	HQ	1330	5	R. Progreso, San Salvador: 1200-0500
45)	XW	1340	1	R. Novedades, San Miguel
46)	MQ	1370	0.5	La Señal del 70, La Libertad: 2000-1200
47)	JI	1390	1.5	La Voz del Litoral, Usulután
48)	ON	1470	2	R. Cristal, San Salvador
49)	PL	1500	1	R. Fides, Usulután

Shortwaves: Call YS--

6)	S	5980	5	R. Nacional de El Salvador
6)	S	9555	5	San Salvador: 1100-0600
41)	V	9576	5	R. Comercial, Santa Ana

2) **Radio Television YSU S.A.** (Comm), Ap. Postal 1050, San Salvador. **Te:** 23-5552. **Cable:** – Dir: R. Flores.
3) **Radiocadena Central S.A.,** 25 Calle Poniente No. 113, San Salvador. **Te:** 25-4134 – Mgr: J.R. Durán P.
4) Carretera á Santa Tecla Km. 5, San Salvador.
5) 4a Calle Oriente, Edif. Comercial, San Salvador – Dir: L.A. Flores.
6) 2a Avenida Sur 113, San Salvador – Dir.Gen: L. Heredia.
7) Calle a Santa Tecla y Av. Olimpica, San Salvador – Mgr: E.I. Cortés.
8) **Circuito YSR** (Comm), Ap. Postal 720, San Salvador. **Te:** 23-6744. **Cable:** Yesere – **L.P:** Dir: B. Eserski.
9) **Radio Cadena YSKL,** Ap. 1329, San Salvador – Dir.Gen: M. Flores.
10) Calle Delgado y 2a Av. Sur Altos, San Salvador – R.P. Manuel Barrera.
11) Pasaje Vilanova 114, San Salvador.
12) Ciudad Jardín, San Miguel.
13) Pasaje Vilanova 114, San Salvador.
14) Av. Independencia S. Altos, Edif. García Rossi, Santa Ana – Dir: O. Gonzáles D. and R. Aguilar M.
16) Cedes, Av. Sta. Mónica 9, Urbanización Buenos Aires, San Salvador – Mgr: J.L. Gudiez G. Dir.Tec: J. Martinez.
17) 4a Calle Poniente 2, Santa Ana.
18) Calle Poniente 3038, San Salvador.
19) Edif. Dario 501, San Salvador.
20) 4a Av. Sur 304, San Miguel – Mgr: H. de Aparicio.
21) 5a Calle Oriente, Sonsonate.
22) 7a Calle Poniente 438, San Salvador.
23) Calle Poniente, Ahuachapán.
25) 29a Calle Oriente, San Salvador.
26) 25 Calle Pte. 113, San Salvador – Mgr: J.R. Durán.
27) Ahuachapán.
28) Edif. Palomo 30, San Salvador.
29) 4a Calle Oriente 528, San Salvador.
30) 4a Av. Sur 304, San Miguel.
31) Ap. Postal 210, San Salvador – Dir.Gen: Betty Suarez. Dir.Adm: B. Suárez. Dir.Tec: O. Tario.
32) Carretera Cd. S. Miguel, La Unión.
36) Cantón Zacamil, Mejicanos.
38) Edif. Ruben Dario 220, San Salvador.
39) 53 Av. Sur 123, Edif. Curtis, San Salvador.
41) Colonial Sta. Lucia 43B, Santa Ana.
44) Ap. 855, San Salvador – Mgr: A. Galeano. Dir.Tec: M. Jarquín.
45) 7a Calle Oriente 46, San Miguel.
47) 4a Av. Norte 5, Usulután – Dir.Gen: J. Infantozzi.

GRENADA

L.T: GMT–4h – **Pr.L:** English – **E.C:** a/c 50, 110V.

RADIO GRENADA (Gov.)

ADDR: P.O. Box 34, Morne Rouge, St. George's, Grenada. **Te:** 4351. **Cable:** Broadcast.
L.P: Mgr: J. Romain. Chief Eng: D. Lashley. Dir. of Prgrs: Mrs. T. Campbell.

STATIONS (Morne Rouge) (G.C: 61.46W/12.01N):

535kHz	1kW:	all times
3300kHz	5kW:	2205-0230 (to USA)
9550kHz	5kW:	1545-1800 (to USA)
15105kHz	5kW:	1945-2200 (to Europe)

HOME SCE. in English: 1000-0215. **N** (W only): 1030, 1100*, 1130, 1300(CBC), 1400(VOA), 1430, 1600*, 2030, 2230, 2300*, 0200. *)=BBC.
ANN: "This is Radio Grenada" – **V.** by QSL-card (3 studios).

GUADELOUPE
(French West Indies)

L.T: GMT–4h – **Pr.L:** French – **EC:** a/c 50, 127/220V (yes).

FRANCE REGIONS 3 (FR3)

ADDR: 97163 Pointe à Pitre Cedex. **Te:** 826320.
L.P: Dir: J.P. David. Dir.Tec: G. Guesdon.
STATIONS: Arnouville 640kHz 20kW, Citerne 1420kHz 4kW.
HOME SCE: 1030-0230(Sat 0400).
N: 1000, 1030 (rel. Paris), 1130, 1200, 1300, 1400, 1500, 1600, 1700, 1900, 2000, 2100, 2200, 2300, 0225.
ANN: "Ici France Regions 3, station de la Guadeloupe" – **INT-SIG:** Guitar – **V.** by letter. Rp – **ALF:** 30Fr. (2 studios).

GUATEMALA

L.T: GMT–6h – **Pr.L:** Spanish – **EC:** a/c 60, 110/220V (yes).

MINISTERIO DE COMUNICACIONES Y OBRAS PUBLICAS

Guatemala – **L.P:** Dir: Eng. R. Arguedas M.

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL

ADDR: 5a Ave. 13-18, Zona 1, Guatemala. **Te:** 25-0-45.
Cable: Tevenac. **L.P:** Dir.Gen: S.A. Lorenzana M. Vice. Dir.Gen: R. Chenal Luna.

Medium Waves: Call: TG---, °=Short Wave.

	Call	kHz	kW	Name, Location and h of tr.
1)	RV	550	10	R. Cinco Sesenta, Guatemala
2)	AP	570	0.4	R. Palmeras, Escuintla
3)	Y	580	1	R. Progreso, Guatemala: 24h

Call	kHz	kW	Name, location and h. of tr.
4) RQ	590	5	R. Quiché, Sta. Cruz: 1100-0300
5) RC	600	1	R. Campesina, Pueble Nuevo Tiquisate
6) GA	610	0.5	R. Señorial, Guatemala
7) PQ	620	1	R. Occidental, San Cristóbal
8) W	°640	10	La Voz de Guatemala, Guatemala: 24h
9) Q	650	10	La Voz de Quezaltenango
10) RT	670	10	R. Fabulosa, Guatemala: 1130-0600
11) VP	680	1	La Voz de la Verapaz, Cobán
12) VX	690	1	R. Tamazulapa, Jutiapa
13) HR	700	10	R. Mundial, Guatemala
14) XL	710	1	R. Tecun Umán, Quezaltenango
15) RO	720	1	R. Corona, Morales: 1100-0500
16) N	°730	10	R. Cultural, Guatemala: 1100-0830
17) HF	740	1	R. Tacaná, San Marcos: 1100-0500
18) HB	760	10	Super Radio, Guatemala
19) BX	770	8	R. Fraternidad, Quezaltenango: 1100-0400
20) O	790	5	La Voz de las Américas, Guatemala
21) FP	810	1	R. Tikal, Flores Petén
22) TO	820	5	R. Internacional, Guatemala
23) AV	830	1	R. Satélite, Mazatenango
24) SM	840	0.35	La Voz de San Marcos, San Marcos
25) X	850	3	R. Ciro's, Guatemala: 24h
26) J	880	10	R. Nuevo Mundo, Guatemala
27) HU	890	1	R. Escuintla, Escuintla
28) MA	900	1	R. Amatique, Pto. Barrios
29) KL	910	1	R. Emperador, Guatemala: 24h
30) RS	920	0.2	R. Sur, Escuintla
31) JL	930	1	R. Imperial, San Pedro Carcha
32) TL	940	5	La Voz del Hogar, Guatemala
33) AF	950	1	R. Indiana, Mazatenango
34) RU	960	1	R. Utatlán, Sta. Cruz del Quiché
35) AX	970	10	R. Continental, Guatemala
36) MQ	980	0.5	R. Retama, San Marcos
37) AL	990	0.8	La Voz de la Perla de Oriente, Chiquimula: 1100-0500
38) AH	1000	1	R. Mil, Guatemala
39) RX	°1010	1	R. Miramundo, Zacapa
40) LM	1020	1	R. Frontera, Pajapita: 1100-0600
41) UX	1030	10	R. Panamericana, Villa Victoria
42) JP	1040	1	R. Oriental, Jalapa
43) SL	1050	5	La Voz de los Cuchumatanes, Huehuetenango: 1100-0430
44) LR	1060	1	R. Favorita, Guatemala
45) D	1070	5	La Voz de Occidente, Quezaltenango: 1100-0600
46) LU	1080	1	R. Novedad, Zacapa: 1100-0500
47) Z	1090	10	R. Cadena Popular, Guatemala
48) SR	1100	1	R. Superior, Quezaltenango
49) MK	1110	1	R. Marinala, Santa Lucia: 1100-0400
50) C	1120	0.5	R. Poderosa, Guatemala
51) VR	1130	1	La Voz de la Costa Sur, Retalhuleu
52) PR	1150	10	R. Reloj, Guatemala
53) RI	1160	1	R. Izabal, Puerto Barrios
54) RL	1170	5	R. Landivar, Quezaltenango: 1100-0600
55) T	1180	10	R. Sonora, Guatemala
56) RJ	1200	1	R. Jutiapa, Jutiapa
57) MX	1210	1	R. Rumbos, Guatemala
58) MT	1220	0.5	R. Luminaria, Antigua
59) AT	1230	0.1	R. Atlántida, Puerto Barrios: 1100-0400
60) K	1240	5	R. Sensación, Guatemala
61) L	1250	0.5	R. Victoria, Mazatenango
62) PA	1260	1	R. Monumental Antigua Guatemala
41) CQ	1270	1	R. Exclusiva, Villa Victoria
63) AJ	1280	0.7	R. Tropicana, Escuintla
64) TU	1290	0.5	R. Nacional, Totonicapán
65) AN	1310	1	La Voz de los Altos, Quezaltenango
66) MU	1330	10	Unión Radio, Guatemala
67) ME	1340	1	R. Quezada, Quesada: 1100-1500, 2200-0200
68) —	1350	1	R. Monja Blanca, Cobán
41) LK	1360	10	R. Tic-Tac, Villa Victoria
67) EB	1360	1	R. Momostenango, Momostenango: 1100-1500, 2200-0200
69) AC	1370	0.5	La Voz de Colombá, Colombá
70) YC	1390	5	R. Istmania, Guatemala
71) IZ	1400	1	R. Caribe, Pto. Barrios: 1100-0600
72) GH	1410	0.5	R. Xelaju, Quezaltenango
73) RP	1420	1	R. Dial 14, Guatemala
74) AG	1430	0.5	La Voz de Huehuetenango: 1800-2200,0000-0400
75) MS	1440	0.5	La Voz de Mazatenango, Mazatenango
76) LG	1450	1	R. Variedades, Guatemala: 1200-0600
77) RM	1460	1	R. Petén, Santa Bárbara
78) RY	1470	1	R. Rosa, Chiquimulilla: 1100-0500
79) CO	1490	0.5	La Voz del Trópico, Cotepeque
80) DX	1510	1	R. Centroamericana, Guatemala
81) RF	1540	10	R. Faro Aviateca, Guatemala: 1300-0430
82) CK	1550	1	R. Sultana de Oriente, Zacapa
83) RE	1560	1	R. Modelo, Retalhuleu
84) VE	1570	10	R. Voz Evangelica de America, Guatemala: 1100-0600
85) PY	1580	1	R. Payaqui, Esquipulas: 1200-0400
86) XC	1590	1	R. Triunfadora, Chimaltenango
8) WC	1600	10	La Voz de Guatemala: 24h

Shortwaves: Call TG---. Location: Guatemala City exc. where indicated.

87) TZ	2340	1	R. Tezulutan, Cobán: 1300-1500, 2100-2400
88) BA	2360	0.25	R. Maya de Barillas, Huehuetenango: 1030-1400, 2230-0330
89) DS	2390	0.3	La Voz de Atitlán, Santiago: 1100-1300, 0000-0300
16) NC	3300	10	R. Cultural: 1100-0830
88) BA	3325	1	R. Maya de Barillas: as 2360kHz
90) VN	3360	1	La Voz de Nahualá, Nahualá: 1100-1300, 2200-0430
91) CH	3380	1	R. Chortis Jocotán, Chiquimula: 2130-0300
92) MN	r4825	1	R. Mam, Cabrican Huitan
87) TZ	4835	1	R. Tezulutan, Cobán: 1300-1500, 2100-2400
93) QH	4870	1	R. Santa Cruz, El Quiché
16) NA	5955	10	R. Cultural: 1100-0830
39) RZ	6010	1	R. Miramundo, Zacapa
8) WB	6180	10	La Voz de Guatemala: 1200-0600
16) NB	9505	10	R. Cultural: 1100-0830
8) WA	9760	10	La Voz de Guatemala: 1200-0600

Addresses and other information

1) 30 Ave. 3-40, Z-11, Guatemala – Dir: R.A. Díaz.
2) Ave. Centroamérica 2-48, Z-3, Escuintla – Dir: F. Tres G.
3) 9a Av. 0-32, Z-2, Guatemala – Dir: J. Humberto Andrino.
4) Ap. 11, Sta. Cruz del Quiché – Dir.Gen: G.A. Gómez D.
5) Tiquisate, Escuintla.
6) 6a Av. 12-15, Z-1, Guatemala – Dir: H. Castillo.
7) San Cristóbal, Totonicapán – Dir: E. Reyna.
8) 5a Av. 13-18, Z-1, Guatemala – Dir.Gen: S.A. Lorenzana. Dir.Tec: S.A. Lorenzana M.
9) Ap. 113, Quezaltenango – Dir: C. Leonel López.
10) Ap. 1466, Z-4, Guatemala – Dir: G. Mazá C. (St's 5, 29, 32, 14 and 46 relay st 10 "Fabucadena de Emisoras Unidas").
11) Cobán – Dir: E. Morales Z.
12) Jutiapa – Dir: Silvia L. de Azurdia.
13) 6a Av. 2-80, Z-1, Guatemala – Dir: A. Mourra.
14) 6a Av. 6-41, Z-1, Quezaltenango – Dir: Sra. M. Sosa de Cifuentes.
15) Calle Principal, Morales, Izabal – Dir: A. Liú.
16) Ap. 601, Guatemala (owned by Central American Mission, Box 28005, Dallas, Texas 75228, U.S.) – Dir: D.C. Rutledge. Dir.Tec: W. Berger. **D.Prgr:** English: Sun 1830-2030, 2345-0430, W 0245-0430.

17) Salón Quetzal, San Marcos – Dir: J.E. Archila M.
18) 6a Av. 15-40, Z-1, Guatemala – Dir: M.A. Rodríguez.
19) Ap. 15, Quezaltenango – Dir: E. Pontacq.
20) 11 Calle 2-69, Z-1, Guatemala – Dir: J. Flamenco C.
21) Flores Petén – Dir: E. Burgos.
22) 37 Ave. 12-15, Z-7, Guatemala – Dir: J. Monteros.
23) Mazatenango, Such – Dir: D. Mazariegos.
24) San Marcos – Dir: G. Adolfo Echeverría.
25) 11 Calle 2-43, Z-1, Guatemala – Dir: R. Castillo S.
26) 6a Av. 10-45, Z-1, Guatemala – Dir: H. González G.
27) Escuintla – Dir: J.R. de León.
28) Puerto arrios Izabal, Agua Caliente – Dir: G.A. Archila.
29) 6a Av. 2-80, Z-1, Guatemala – Dir: R. Aguilar.
30) 4a Av. 7-30, Z-1, Escuintla – Dir: C. Díaz.
31) San Pedro Carcha – Dir: J.L. Rubio.
32) Ap. 31, Guatemala – Dir: G. Gaitán.
33) 6a Av. 10-57, Z-1, Mazatenango – Dir: G. Alcazar.
34) Sta. Cruz del Quiché – Dir: C.I. de Archila.
35) 13 Calle 9-31, Z-1, Guatemala – Dir: R. Vizcaíno R.
36) San Marcos – Dir: H. Díaz.
37) 7a Av. 4-00, Z-1, Chiquimula – Dir: A. Liu C.
38) Santa Rosita, Z-16, Guatemala – Dir: G. Calán P.
39) Palacio Nal. Ministerio de la Defensa Nacional, Guatemala.
40) Pajapita, San Marcos – Dir: C. Alcazar F.
41) Km 12C. Roosevelt, Guatemala – Dir: M.V. de Paniagua.
42) Jalapa – Dir: A. Morales H.
43) 2a Calle 4-42, Z-1, Edif. Herrera, Frente al Parque Central, Huehuetenango – Dir: J.R. Garcia M.
44) 3a Calle 10-25, Z-2, Guatemala – Dir: A. Anleú.
45) 7a Av. 0-26, Z-2, Quezaltenango – Dir: J.A. Yllescas F.
46) 4 Calle 10-34, Z-1, Zacapa – Dir: E.A. Liu.
47) Via 6, 4-32, Z-4, Guatemala – Dir: J. de la Cerda.
48) Coatepeque, Quezaltenango – Dir: J. Quintana.
49) 5a Calle 5-26, Z-1, Santa Lucia – Dir: V.M. Marroquin.
50) 2a Av. 13-39, 2-1 Guatemala – Dir: J.A. Quiñonez.
51) Ap. 84, Retalhuleu – Dir: J.E. Archila M.
52) 3a Av. 11-12, Z-1, Guatemala – Dir: R. Girón L.
53) Puerto Barrios – Dir: H.A. Orellana.
54) 14 Av "A" 78, Z-1, Quezaltenango – Dir: H. Díaz M.
55) 16 Calle 5-20, Z-1, Guatemala – Dir: M. Ruiz T.
56) Jutiapa – Dir: C.E. Archila.
57) 3a Calle 10-25, Z-2, Guatemala – Dir: R. Bocaletti.
58) Antigua – Dir: C. Echeverría.
59) Ap. 425, Puerto Barrios – Dir: J. Archila M.D.D.
60) Ap. 281, Guatemala – Dir: H. Gonzalez G.
61) Mazatenango – Dir: A. Medina.
62) Antigua, Guatemala – Dir: S. Montealegre.
63) 4a Av. 6-26, Z-1, Escuintla – Dir: C. Echeverría.
64) Belongs to: Dirección Gral. de Radiodifusion Nal. See addr. above.
65) Quezaltenango – Dir: J.C. Garcia P.
66) Calle del Administrador 39-46, Z-5, Guatemala.
67) 2a Av. 8-53, Z-1, Guatemala – Dir: M. Dardón P.
68) Cobán. A.V.
69) Colombá – Dir: O. Garcia U.
70) Ap. 1405, Guatemala – Dir.Gen: J.E. Pérez M.
71) 8 Av. centre 15 y 16 Calles, Pto. Barrios – Mgr: E.A. Liú.
72) 15 Av. 0-56, Z-3, Quezaltenango – Dir: J. Oliva V.
73) Av. Bolivar 32-06, Z-03, Guatemala – Dir: E. Soria S.
74) Ap. 13, Huehuetenango – Dir: M. Guzmán.
75) 2a Av. 25 Col. 30 de Junio, Mazatenango.
76) Arc 4-7, No. 74, Z-5, Guatemala – Dir: J. de Gonzales.
77) Santa Bárbara – Dir: M. Colmenares.
78) Edif. Municipal, Chiquimulilla, Santa Rosa.
79) Cotepeque – Dir: G. Calderón.
80) 2a Calle 36-89, Z-11, Guatemala – Dir: C. Peynado.
81) 15 Calle "A" 13-17, Z-1, Guatemala – Dir: M. Estupinian R.
82) Zacapa – Dir: C. Alarcon P.
83) Retalhuleu – Dir: G. Andreu C.
84) Ap. 1213, Guatemala – Dir: M.L. Moscoso.
85) Esquipulas – Dir: J. Goméz F.
86) Chimaltenango.
87) Ap. 19, Cobán, Depto. de Alta Verapaz – Mgr: B. Ness.
88) Barillas, Huehuetenango – Mgr: L.W. Veith.
89) Santiago Atitlán, Depto. de Sololá – Mgr: J. Ajzip A.
90) Nahualá, Depto. Sololá – Mgr: Sister J. Druffel.
91) Centro Social Jocotán, Chiquimula – Mgr: J.M. Xhrouet.
92) Cabrican Huitan, Cabrican, Dept. Quezaltenango.
93) Aldea Chitatul, El Quiche.

HAITI

L.T: GMT–5h – **Pr.L:** French, Creole – **E.C:** a/c 60, 115/230V (yes).

SERVICE DES TELECOMMUNICATIONS, Port-au-Prince. **Cable:** Telepo.
STATIONS: All st's comm. exc. 1), 3), 4).
Mediumwaves: Call 4V---, °) Shortwave.

	Call	kHz	kW	Name and h. of tr.
1)	I	660	20	R. Lumière, Port-au-Prince: 1000-0500
1)	IA	720	5	R. Lumière, Artibonite: 1000-0500
1)	IE	740	5	R. Lumière, Pignon: 1000-0500
1)	U	760	5	R. Lumière, Les Cayes: 1000-0500
1)	O	780	5	R. Lumière, Jérémie: 1000-0500
2)	EF	840	10	R. St. 4VEH, Cap Haïtien: 1100-1800, 2000-0100
3)	AA	880	1	R. Nationale, Port-au-Prince: 1000-1400, 2300-0300, Sun 1000-0300
4)	VB	895	1	R. Artibonite, Gonaïves
5)	RMN	910	10	R. Nouveau Monde, Port-au-Prince: 1045-0500, Sun 1300-0300
6)	JS	930	0.2	R. Variéte, Gonaïves: 1000-0400
7)	CD	960	0.7	R. Carillon, Port-au-Prince: 1700-0300, Sun 1200-0030
8)	CPS	990	0.3	R. Cacique, Port-au-Prince: 1100-0230
2)	EC	°1035	10	R. St. 4VEH, Cap Haïtien: 1000-1400, 2000-0100
9)	A	1080	1	Voix de la Révolution Duvaliériste, Port-au-Prince: 1100-0400
10)	WB	°1110	0.2	R. Citadelle, Cap Haïtien: 1115-1130, 1630-1730, 2215-2315
11)	AB	1150v		R. Caraibes, Port-au-Prince: 0945-0400
12)	—	°1190	0.15	La Voix d'Avé Maria, Jérémie
13)	DS	1210	5	R. Progrès, Port-au-Prince: 1000-0400
14)	YM	1250	0.2	R. Diffusion Haïtienne, Port-au-Prince: W 1100-0200, Sun 1600-2200
15)	GA	1280	0.2	R. Capois-la-Mort, Port-de-Paix: 1000-0400
16)	RH	1280	5	R. Métropole, Port-au-Prince: 0930-0500, Sun 1300-0500
17)	JCD	1330	10	R. Haiti-Inter, Port-au-Prince: 1000-0500
18)	S	1385	1	R. Port-au-Prince:1030-0300
19)	GM	1430	1	R. M.B.C., Port-au-Prince: 1130(Sun 1330)-0400
20)	CP	°1460	0.1	La Voix du Nord, Cap Haïtien: 1200-0300

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	Call	kHz	kW	Name and h. of tr.
3)	AA	1475	1.5	La Voix du Peuple, Port-au-Prince: 1000-0600
21)	OC	1500	0.35	R. Sélect, Port-au-Prince

Shortwaves: Call: 4V---.

2)	SO	3345	0.35	R. St. 4VEH, Cap Haïtien: 1100-1800, 2000-0100
22)	GS	5020	0.5	R. Indépendance, Gonaïves
12)	AE	5090	0.25	R. Grande-Anse, Jérémie
20)	MD	6030	1	La Voix du Nord, Cap Haïtien
11)	—	6105		R. Caraibes, Port-au-Prince: 0945-0400
2)	E	6120	2	R. St. 4VEH, Cap Haïtien: 1000-1400, 2000-0100
10)	WA	6155	0.25	R. Citadelle, Cap Haïtien: 1115-1130, 1630-1730, 2215-2315
19)	CM	6165		R. M.B.C, Port-au-Prince
2)	EH	9770	2.5	R. St. 4VEH, Cap Haïtien: 1000-1400, 2000-0100
2)	EJ	11835	2.5	R. St. 4VEH, Cap Haïtien: 1000-1400, 2000-0100

Addresses and other information:
1) B.P. 1050, Port-au-Prince – Dir: E.S. Walker. **D.Prgr: E:** 0300-0400(Sat 0500).
2) Box 1, Cap Haïtien. (Int. Addr: Box 90-B, Port-au-Prince). **Cable:** Ormiso – Gen.Mgr: Dr. W. Gillam. Dir.Tec: M.E. Picazo. Secr: Mrs. E. Beachy. **D.Prgr: French & Creole:** On 840kHz: 1000-1800, 2000-0100; On 3345kHz: 1100-1800, 0000-0100. **Spanish:** On 1035/3345/6120/9770/11835kHz: 1000-1100, 2000-2400. **English:** On 1035/6120/9770/11835kHz: 1100-1400, 0000-0100.
3) B.P. 2088, Port-au-Prince – Dir: A. Azor.
4) 4 Angle Rue du Quai et Ruelle, St. Jean, Gonaïves – Dir: V. Bastien.
5) Place de l'Hotel de Ville, Port-au-Prince – Dir: M. Piquian.
6) Gonaïves – Dir: J. Simon.
7) Rue Dr. Aubry 159, Port-au-Prince – Dir: C. Desmangles.
8) Rue Travesière 3, Port-au-Prince.
9) B.P. 1143, Port-au-Prince – St.Mgr: M. Canal.
10) Rue 10 et 11-E, Cap Haïtien – Dir: Jean Baptiste Dorothée.
11) 28 Ruelle Chavannes, Port-au-Prince – Dir.Gen: Mme. Hellmut Zippenhauer. Dir.Tec: W. Dorsenville.
12) Jérémie – Dir: A. Félix.
13) B.P. 1174, Port-au-Prince – Dir: Gerard Resil.
14) Ruelle Jeanty, Bois-Verna, Port-au-Prince – Dir: Y. Michel.
15) Rue Notre Dame, Port-de-Paix – Dir: A. Dorvil.
16) B.P. 62, Port-au-Prince – Dir: H. Widmaer. Dir.Prgr's: B. Lemaine. **English:** W 0300-0400.
17) B.P. 737, Port-au-Prince – Dir: J.L. Dominique.
18) Stade Sylvio Cator, Port-au-Prince.
19) B.P. 367, Port-au-Prince – Dir: F.C. Magloire.
20) Rue 20 A-B, Cap Haïtien – Dir.Gen: D. Dupuy.
21) Blvd. J.J. Dessalines, Rue Saint-Honoré 538, Port-au-Prince.
22) Gonaïves – Dir: P. Mitton.

HONDURAS (Rep.)

L.T: GMT–6h – **Pr.L:** Spanish.

DIRECCION GENERAL DE TELECOMMUNICACIONES

Tegucigalpa. **Cable:** Gentel.
L.P: Dir.Gen: G. Enrique. Wildt. Yates.

STATIONS

Mediumwaves: Call: HR---, °) also on Shortwave. •=inactive.

	Call	kHz	kW	Name, location and h. of tr.
1)	CZ	560	3	"La Consentida, San Pedro Sula
2)	T2	570	1	R. Satélite, Choluteca
2)	T3	580	1	R. Satélite, Siguatepeque
2)	T5	590	1	R. Satélite, San Pedro Sula
3)	RP	590	1	R. Radiópolis, Tegucigalpa
4)	LP	°610	10	R. América, Tegucigalpa: 1300-0500
5)	MT	°640	1	R. Molino Rojo, San Pedro Sula: 1300-0500
2)	VF	°640	10	R. Exitos, Tegucigalpa: 1100-0500
6)	LR	650	1	R. Comayagua, Comayagua
2)	N	°670	10	La Voz de Honduras, Tegucigalpa: 1100-0500
2)	—	680	1	La Voz de Honduras, Siguatepeque
2)	VO	690	1	La Voz de Honduras, Choluteca
2)	RT	700	1	R. Exitos, San Pedro Sula
2)	KL	700	1	R. Reloj, Tegucigalpa: 1100-0500
7)	RH	°710	5	La Voz de Occidente, Sta. Rosa de Copán: 0945-0400
8)	TV1	°715	1	R. Caribe, Tegucigalpa: 1200-0500
8)	TV2	720	1	R. Televisión, San Pedro Sula
9)	QQ	730	0.25	R. Musical, Comayagua
10)	JS	740	1	R. Metropolitana, San Pedro Sula: 1100-0600
11)	XW	°740	1	R. Comayagüela, Tegucigalpa: 1200-0500
12)	DN	°750	1	R. Caribe, La Ceiba
13)	UV	760	1	R. Eco del Chamelcón, Pto. Cortés
14)	NQ	°770	10	R. Morazán, Tegucigalpa
2)	WN	780	1	La Voz de Honduras, San Pedro Sula
15)	MV	790	1	R. Aguán, Coyoles
2)	TX	790	1	R. Satelite, Tegucigalpa: 1100-0500
16)	MD	°800	1	R. Yoro, Yoro
17)	BT	°810	3	R. Valle, Choluteca: 0940-0400
18)	XS	820	1	R. Sula, San Pedro Sula
19)	SP	°830	1	R. Moderna, Tegucigalpa
20)	GO	840	1	R. Porteña, Pto. Cortes: 1200-0500
8)	VY	840	1	R. Televisión, Choluteca
8)	VZ	850	1	R. Televisión, La Ceiba
21)	BS	850	10	R. San Pedro, San Pedro Sula: 1100-0500
2)	U	°860	10	R. Centro, Tegucigalpa: 1100-0400
23)	OG	870	1	R. Actualidad, Villanueva-Cortés
8)	XV	880	1	R. Caribe, San Pedro Sula
24)	—	r890	—	R. Nacional, Tegucigalpa
25)	ZV	900	1	R. La Fabulosa, San Pedro Sula
26)	VS	°910	10	R. Católica, Tegucigalpa: 1000-0500
27)	KW	°930	1	R. El Patio, La Ceiba: 1100-0500
20)	ZE	930	3	R. Cortés, Puerto Cortés: 1100-0500
11)	YW	950	5	R. Panamericana, Tegucigalpa: 1200-0600
1)	CZ	950	5	Cadena de Oro, San Pedro Sula
7)	CU	970	1	R. Copan, Sta. Rosa de Copán: 0945-0400
28)	TL	°980	5	R. Tic Tac, Tegucigalpa: 24h
29)	LC	°1000	1	R. Continental, San Pedro Sula
30)	BT	1005	1	R. Norte, San Pedro Sula
31)	MH	°1010	3	La Voz del Junco, Sta. Barbara: 1100-0100
32)	CA	1020	1	R. Mil, San Pedro Sula
33)	XE	°1030	1	R. Mil Treinta, Juticalpa: 1200-0500
7)	YF	1030	1	R. Ticante, Ocotepeque: 0945-0400
2)	VH	1040	1	R. Estereomil, Tegucigalpa
30)	BT	1050	1	R. Norte, San Pedro Sula
34)	XN	1060	1.5	R. Ceiba, La Ceiba: 1145-0500
35)	ID	1070	1	R. Miramar, Tela: 1200-0500
36)	QL	1070	—	R. Siguatepeque, Comayagua
37)	XM	1070	1	R. Meridiano, Choluteca
38)	VA	1080	1	R. Tiempo, San Pedro Sula: 1200-0600
39)	UW	°1080	1	R. City, Tegucigalpa
40)	YL	1110	5	R. Fiesta, Tegucigalpa
41)	PL	°1110	10	R. Progréso, El Progréso: 0930-0500
42)	D4	1120	2.5	R. Oriental, Danli: 1030-0400
43)	OD	1130	1	R. Aeropuerto Internacional, San Pedro Sula
44)	—	1130	5	R. Mambi, San Pedro Sula
45)	RO	1130	1	R. Universal, Tegucigalpa
46)	QN	°1145	5	La Voz del Atlántico, Pto. Cortés: 1100-0500
47)	GF	1150	1	R. Paraíso, El Paraíso: 1100-0400
23)	YN	1150	1	R. La Fabulosa, Tegucigalpa
48)	TZ	1160	0.5	R. Cristal, Tegucigalpa
1)	VU	°1160	25	R. Swan, San Pedro Sula
10)	VW	°1190	10	La Voz de Centroamerica, San Pedro Sula: 1100-0600(r1173kHz)

	Call	kHz	kW	Name, location and h. of tr.
11)	ZW	1200	1	R. Suprema, Tegucigalpa: 1200-0500
36)	QO	1220	1	La Voz de la Costa, San Pedro Sula
49)	TS	°1220	1	R. Excelsior, San Pedro Sula
50)	QL	1230	0.5	Centro Radial Hondureña, Siguatepeque
51)	ZC	1230	10	R. Monumental, Tegucigalpa: 1200-0600
52)	RZ2	°1240	1	R. Juticalpa, Juticalpa: 1015-0400
42)	IC	1250	2	R. Latina, El Paraiso: 1030-0400
53)	LV	1250	1	R. Colonial, Tegucigalpa
54)	Q	°1250	10	R. Suyapa "La Cariñosa", San Pedro Sula: 1000-0600
55)	YT	1270	1	R. Estrella de Oro, San Pedro Sula: 1000-0500
56)	XA	1280	1	R. Choluteca, Choluteca
57)	LH	1290	1	R. Cultura, Tegucigalpa: 1200-0600
58)	XX	1300	1	R. Lima, La Lima: 1000-0400
59)	QG	1310	1	R. Cadena, Tegucigalpa
60)	HG	1340	10	R. El Mundo, San Pedro Sula
39)	CO	1350	1	R. City, Tegucigalpa
47)	TR	1360	1.5	R. Danlí, Cd. Danlí: 1000-0300
61)	ST	°1380	1	R. 1° de Mayo, San Pedro Sula: 1200-0300
62)	VC	°1390	10	La Voz Evangelica, Tegucigalpa: 1030-0600
63)	PI	°1400	1	El Eco de Honduras, San Pedro Sula: 1400-0500
64)	GZ	1420	1	La Voz de Atlantida, La Ceiba: 1130-0430
65)	OW	1420	1	R. Trópico, Tela
66)	IC	1440	1	La Radio del 70, Pto. Cortés
3)	ZT	1440	1	R. Titania, Tegucigalpa
67)	RD	°1450	1	R. San Isidro, La Ceiba
68)	OX	°1460	1	R. Landia, Comayagua
69)	OC	1480	1	R. Bahía, Roatán
70)	OF	1500	1	R. Estero Centro, San Pedro Sula
71)	MS	1540	1	R. Patria, Tegucigalpa
72)	GT	1560	1	R. Comercial, Tegucigalpa

Shortwaves: Call HR--.

	Call	kHz	kW	Name and h. of tr.
52)	RZ	4780	0.5	R. Juticalpa: 1015-0400
62)	VC	4820	5	La Voz Evangelica, Tegucigalpa: 1030-0600
2)	—	r4820	—	R. Satélite, Tegucigalpa
67)	RD	4840	1	R. San Isidro, La Ceiba
73)	VL	4890	1	R. Lux, Olanchito: 1200-0300
46)	IC	4905	2	La Voz del Atlantico, Pto. Cortés: 1100-0500
41)	PL3	4920	10	R. Progréso, El Progréso: 0930-0500
26)	VS	4935	1	R. Católica, Tegucigalpa: 2300-0100
17)	BT	4940	1	R. Valle, Choluteca: 0940-0400
68)	OX	4965	1	R. Landia, Comayagua
2)	N	5875	5	La Voz de Honduras, Tegucigalpa: 1100-0500
7)	RH	5960	1	La Voz de Occidente, Sta. de Copán: 0945-0400
10)	WW	5972	1	La Voz de Centro América, San Pedro Sula: 1100-0600
1)	VU	6000	1	R. Swan, San Pedro Sula: 1100-0700
4)	LP	6050	5	R. América, Tegucigalpa: 1300-0500
31)	MH5	6075	3	La Voz del Junco, Sta. Bárbara: 1100-0100
54)	Q	6125	5	R. Suyapa, "La Cariñosa", San Pedro Sula: 1100-0600
8)	TV	6165	1	R. Caribe, Tegucigalpa: 1200-0500
1)	—	6185	1	R. Swan, San Pedro Sula

Addresses and other information

St's: 12),13),19),24),29),30),33),37),40),44),48),55),56),61), 69),71): no other information available.

1) Ap. 882, Rio de Piedras, San Pedro Sula – Dir: R.H. Nodarse.
2) Ap. 642, Tegucigalpa – Pres: M. Villeda T. Dir.Tec: C.E. Riedel.
3) 5a Calle 315, Tegucigalpa, DC – Dir: A.D. Lardizabal.
4) Ap. Postal 259, Tegucigalpa, DC.
5) San Pedro Sula – Sta. Olga L. de Kattan.
6) Comayagua – Dir: C. Rios Rivera.
7) Cas. 206, Santa Rosa de Copán – Dir: A. Rendon P. (HR4F: Frente Telegrafos, Ocotepeque).
8) Ap. 734, Tegucigalpa, DC.
9) Comayagua – Dir: J. Lanza de Picquart.
10) Ap. 120, San Pedro Sula – Dir: J.J. Sikaffy.
11) Ap. 21-C. Tegucigalpa, DC – Dir: H. Andino N.
14) Ap. 393, Tegucigalpa, DC – Dir: F. Pon Aguilar.
15) Coyoles Central – Dir: G. Irias.
16) Yoro, Yoro – Dir: I. Martinez.
17) Ap. 49, Choluteca – Dir: Sra. Lety Stercke M.
18) San Pedro Sula – Dir; C. Coleman.
20) Radiocadena Porteña, 1a Av. del Ferrocarril, Puerto Cortés – Mgr: P.M. Mario e Prieto.
21) Ap. 364, San Pedro Sula – Dir.Gen: M. Andonie F.
23) Villanueva-Cortés – Dir: R.F. Saybe S.
25) San Pedro Sula – Dir: A.D. Cardizabal.
26) Ap. Postal 480, Tegucigalpa, DC.
27) La Ceiba – Dir.Gen: J.A. Velásquez. Mgr: G. Irias A.
28) Ap. 771, Tegucigalpa, DC – Dir: A. de Chahin.
31) Frente al Parque Central, Calle la Independencia, Santa Bárbara – Mgr: Miguel E. Hasbun.
32) San Pedro Sula – Dir: H. Claros Alvarez.
34) La Ceiba – Dir: A.R. Diaz. Mgr: L.A. Peña.
35) Tela, Atlántida – Dir: C. Canales A.
36) Comayagua – Dir: E. Toledo H.
38) Ap. 906, San Pedro Sula – Dir: V.M. Rodriguez A.
39) Tegucigalpa, DC – Dir: A. Balawhy S.
41) Ap. 20, El Progréso, Yoro – Dir: J.E. Tolle.
42) Ap. 21, Edif. R. Oriental, Danli, El Paraíso – Dir.Gen: H. Mendoza M.
43) San Pedro Sula – Dir: J.A. Peña P.
45) Tegucigalpa, DC – Dir: H.A. Padgett.
46) Barrio la Curva, 2a Ave. 12 Calle Este, Puerto Cortés – Dir: A. Griffin C.
47) El Paraíso – Mgr: Roy S. Villafranca.
49) San Pedro Sula – Dir: P. Emilio Torres.
50) Siguatepeque – Dir: J.A. Baires.
51) Ap. 914, Tegucigalpa, DC – Dir: S.S. Canahuaty.
52) Ap. 3, Juticalpa – Dir.Gen: V. Rubi Z.
53) Tegucigalpa, DC – Dir: F. Fallos.
54) Edif. Yuja, 5ta Ave. S.O. No. 55, San Pedro Sula – Dir: F. Elortegui I.
57) Ap. 955, Tegucigalpa, DC – Dir: J.A. Padilla H.
58) Colonia Pineda, La Lima – Dir.Gen: R. Zavala Y.
59) Tegucigalpa, DC – Dir: E. Rios.
60) Ap. 210, San Pedro Sula – Dir: T. Battistello.
62) Ap. 145-C, Tegucigalpa, DC – Dir: R. Jones (Owned by: Conservative Baptist Home Mission Society), Box 828, Wheaton Ill, 60187, USA). **English:** 0300-0600.
63) Ap. 24, San Pedro Sula.
64) Ap. 17, La Ceiba – Dir: M.R. Moncada R.
65) Tela – Dir: R. Funez A.
66) Puerto Cortés – Dir: R. Griffin C.
67) Ap. 51, La Ceiba – Dir: J.F. Martinez.
68) Comayagua – Dir: R. Barahona.
70) San Pedro Sula – Dir: R. Assaf.
72) Tegucigalpa, DC – Dir: R.A. Pagoaga.
73) Ap. 109, Olanchito, Yoro – Mgr: Nora Quesada R.

JAMAICA

L.T: GMT–5h – **Pr.L:** English – **E.C:** a/c 50, 110/220V (yes).

RADIO JAMAICA LTD. (Comm.)
ADDR: P.O. Box 23, Kingston 5. **Te:** 936-1100. **Cable:** Broadco.
L.P: Gen.Mgr: L.W. de Pass. Dir.Prgr: W. Ridgard. Chief Eng: W.G. Matthews.
STATIONS (MW all 5kW)
Montego Bay 550kHz; Kingston 720kHz; Galina 580kHz; Spur Tree 770kHz – **FM:** Kingston 94.5MHz 1kW, Spur Tree 90.5MHz 1kW (2 studios).
HOME SCE. in English: 24h. **N, Wrp:** W 1100, 1200, 1230, 1300(BBC), 1500, 1700, 1800, 2000, 2200, 2230, 2300, 2400, 0330; Sun 1200, 1300, 1400(BBC), 1500, 1700, 2200, 2300, 2400(BBC), 0300.
FM (Stereo): 1100-0500. Kingston 92.7MHz 10kW, 95.7MHz 0.5kW.
Imminent Hurricane Warnings: On the h.
ANN: "This is RJR" – **V.** by QSL-card.
AD: 12 min's per h. (FM Stereo: 7 min's per h) – R. Jamaica also operates the Reditune background music service.

JAMAICA BROADCASTING CORPORATION (Comm)

ADDR: P.O. Box 100, Kingston 10. **Te:** 926-5620. **Cable:** Jarad. **Telex:** JA2218.
L.P: Chmn: A. Foreman. Gen.Mgr: D. Whylie. Dep.Gen.Mgr: H. Bernard. Dir. of Engineering: N. James.

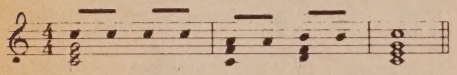
RADIO ONE

STATIONS	kHz	kW		kHz	kW
Kingston	560	5	Montego Bay	700	5
Mandeville	620	5	Port Maria	750	5

FM: Kingston 96.3MHz 1.2kW – Half Way Tree 99.9MHz 0.08kW – Point Galina 93.3MHz 1.2kW.
HOME SCE: 0945-0500. **N:** 1030, 1100, 1130, 1200, 1230, 1300, 1530, 1731, 1830, 2030, 2130, 2230, 0100, 0300, 0310, 0430(W) – **Wrp. and Fishermen's Forecast:** W2248.

RADIO TWO

FM (Stereo): 24h. Coopers Hill 91.1MHz 2kW; Montego Bay 92.1MHz, Oracabessa 100.3MHz, Spur Tree 103.3MHz, Half Way Tree 105MHz(all 0.25kW).
ANN: "This is Jamaica Broadc. Corpo." or "This is JBC Radio One (or Two)" – **INT-SIG:** Guitar Chi Chi Bud (Jamaica folk-song) – **V.** by QSL-card. Rp.



MARTINIQUE (French West Indies)

L.T: GMT–4h – **Pr.L:** French – **E.C:** a/c 50, 220V (no).

FRANCE REGION 3 (FR3)

ADDR: B.P. 662, Fort de France. **Te:** 71-16-60.
L.P: Dir: M.J. Suhas. Dir.Tec: M.H. Mourey. Dir. of Inf: M.R. Calixte. Dir. of Prgrs: M.M. Vuylsteke.
STATIONS (G.C: 61.00W/14.30N): 1310kHz 50kW – 3315kHz 4kW – **FM:** 95.0MHz 0.05kW.
HOME SCE. in French: 1000-0300. **N:** 1000, 1030, 1200, 1300, 1400, 1500, 1700, 2000, 2300, 0255.
ANN: "St. Nationale de prgr. France Region FR3 Martinique" – **INT-SIG:** First eight notes of "Adieu Foulard, Adieu Madras" on piano – **V.** by letter or QSL-card – **ALF:** 80 Frcs.

MEXICO

L.T: GMT–6h in all states except: GMT–7h (Sonora, Sinaloa, Nayarit, Baja California Sur; and during summer Baja California(Norte)); GMT–8h(Baja California Norte, winter) – **Pr.L:** Spanish – **EC:** a/c 60, 110/220 (yes).

DIRECCION GENERAL DE TELECOMUNICACIONES

Departamento de Frecuencias, Av. Niño Perdido y Cumbres de Acultzingo, México 12, D.F.
L.P: Dir.Gen: Ing. Carlos Nuñez A.

DIRECCION GENERAL DE CONCESIONES Y PERMISOS

ADDR: Edif. Rafael, Av, Eugenio 198, México 12, D.F.

CAMARA NACIONAL DE LA INDUSTRIA DE RADIO Y TELEVISION

ADDR: Paseo de la Reforma 445, 9° Piso, México, D.F. – **L.P:** Gte: Lic. Emilio Velasco Diaz. Pres: Carlos Flores Alvarez.

Class: See North America Table for explanation.
Slogans used on the air are in quotation marks; others may be merely corporate names.
a) member of Radio Cadena Nacional. +) same programs on MW & FM. °) same programs on MW & SW. Numerical superscripts identify harmonic heard outside Mexico, e.g. ³1440 means transmission on 3×1440=4320kHz – *) inactive. v) frequency varies sufficiently to produce an audible heterodyne. CP) Construction permit for new station or change in facilities.

Note: While times are in GMT, days of week mentioned apply to México, not necessarily GMT. Most stations carry "La Hora Nacional" Sundays 0400-0500(Mon GMT).

STATIONS: Mediumwaves: Call XE-. Class "D" stations operate generally 1300-0100, with seasonal variations.

	Call	kHz	kW	Class, location, h. of tr.
1A)	WA	540	150	U1 "La Voz de la America Latina", San Luís Potosí: 1200-0500(relay 900kHz)
2)	UC	550	1/0.25	U1 R. Felicidad, Tehuantepec: 1200-0500
3A)	KL	550	1/0.25	U1 Jalapa: 1300-0100
4A)	QW	550	2/0.2	U1 "R. La Poderosa", Mérida: 1155-0600
5)	YO	560	1/0.5	U1 Hautabambo, Sin.(CP)
6)	TJ	570	1/0.25	U1 R. Romantica, Torreón: 1245-0600
7)	LQ	570		U1 Morelia: 1200-0600
8A)	BJB	570	5/0.25	U1 "R. Fiesta El Canonero del Cuadrante", Monterrey: 1100-0605
9)	OA	a570	5/0.25	U1 R. Oaxaca, Oaxaca: 1200-0500
10)	NZ	570	1/0.25	U1 R. Impulsora, "La joven del Cuadrante", Culiacan: 1300-0500
11)	VX	570	1/0.25	U1 R. Chontalpa, Comalcalco: 1200-0400
12)	MU	580	5/0.25	U1 R. Variedades, Piedras Negras, Coah: 1200-0510
13A)	UE	a580	1/0.2	U1 La Voz de Chiapas, Tuxtla Gutierrez: 1155-0600
14A)	FI	580	5/0.25	U1 "R. Mexicana', Chihuahua: 24h
15)	AV	+580	10/1	U1 R. Guadalajara, "Canal 58": 1155-0700
16)	HP	580	1/0.15	U1 "R. Variedades", Cd. Victoria: 1145-0400
17A)	DZ	580	1/0.45	U1 R. dif. Eles, Córdoba: 1200-0500
18A)	PH	590	5	U1 "R. 590, La Pantera de la juventud", México: 1200-0800
19)	E	590	1/0.15	U1 "R. Durango": 24h
20A)	HQ	590	1.5	U1 R. Hermosillo, "La Chica de Sonora": 1300-0600
21A)	FD	590	5/0.25	U1 Río Bravo: 1250-0500
22)	DN	600	1	U1 "El Radiazo Mexicano", Torreón: 1200-0500
23)	BB	a600	5/1	U1 RCN de Acapulco, "Onda 600": 1200-0400
24)	RJ	600	5/1	U4 Mazatlán: (CP. to move from 1320)
25)	Z	a600	2	U1 "R. Onda Musical", "La Voz de la Peninsula", Mérida: 1200-0400
26A)	BX	610	5/0.5	D1 "La Voz de la Region Carbonifera", Sabinas: 1200-0500
27A)	UF	610	5/1	U1 Sistema R. Michoacan, Uruapan: 1255-0400
28)	KZ	610	1/0.5	U1 La Voz del Istmo, Tehuantepec: 1200-0600
29A)	CV	610	1/0.25	U1 "La V de Valles", Cd. Valles: 1155-0500
30)	GS	610	1/0.5	U1 "Canal 61", Guasave: 1230-0400
3B)	JA	610	1/0.5	Jalapa: 1200-0500
31)	EL	610	5/1	U1 "R. Progreso", Fresnillo: 1230-0500
32A)	BU	620	5/0.25	U1 "La Nortenita", Chihuahua: 1300-0700

	Call	kHz	kW	Class, location, h. of tr.
33)	NK	620	10/5	U1 "R. 620", México: 1300-0700
34)	CK	620	1/0.1	U1 R. Exitos, Durango: 1300-0515
35A)	OO	620	1/0.25	U1 Tepic: 1300-0600
36A)	ACM	620	1/0.1	U1 Villahermosa: 1200-0600
37)	TS	630	1/0.5	U1 "R. Tapachula", Tapachula: 1200-0300
38)	ACA	a630	5/0.25	U1 La ACA de Acapulco, Acapulco: 1200-0400
39A)	FB	630	10	U4 "La Efe be Sesenta y Tres", Monterrey: 1200-0600
40)	TK	a630	1/0.25	U1 R. Emisora Occidental, "La joven del cuadrante 630", Mazatlán: 1300-0700
41)	ID	630	5	D1 Cañanea, Son.
42)	FU	630	5/0.75	U1 "Voz amiga de la cuenca de Papaloapan", Cosamaloapan: 1100-0400
43)	ZM	650	5	D1 La Voz del Comercio, "R. Complacencias 65", Zamora
44A)	RPM	+660	10/5	U2 "R. Uno", México: 1200-0800 (CP 50/5)
45)	YG	660	5/0.25	D1 Matías Romero, Oax.
46A)	RTM	660	1	D1 Macuspana
47A)	TOR	a670	1	D1 "X-E-Tor", "R. Ranchito", Torreón
48A)	IS	670	1	D1 "Onda 670", Cd. Guzmán
49)	KQ	a680	5/0.5	U1 "El Echo de Tacana", Tapachula: 1200-0600
14B)	FO	680	1	D1 "Canal 68, La F-O", Chihuahua
50A)	LG	680	10/5	U1 "L-G, La Grande", Leon: 24h
51)	KC	680	5/1	U4 Oacaca, Oax
52)	FJ	680	1/0.1	U1 R. Teziutlán: 1200-0400
53)	ORO	680	1	D1 "R. Favorita", Guasave: 1200-0600
54)	TRA	+690	50	U4 "Extra Music", Tijuana: 24h. (English)
55)	N	690	20/5	U1 "R. Mundo", México: 1200-0600
56)	TRN	690	50	U3 Progreso, Yuc.
57A)	DKR	700	1	D1 "R. Ambiente", Zapopan
58)	PQ	710v	1/0.1	U1 "R. Variedades, La Nueva Dimension", Múzquiz: 24h
59A)	RL	710	1/0.2	U1 Colima: 1055-0600
60)	ON	710	2/1	U1 "Nueva XEON", R. Mexicana", Tuxtla Gutiérrez: 24h
44B)	MP	710	1/0.5	U1 "Radio Dos", México: 1200-0800
61)	RK	710	1/0.18	U1 Tepic: 1300-0600
62)	RPO	710	1/0.1	U1 "Su Fiel Companera", Oaxaca: 1100-0500
10B)	BL	+710	5/0.25	U1 "Su Ranchería Consentida", Culiacan: 1300-0600
63A)	X	730	100/50	U1 "La X, La Voz de Mexico", "Canal 73", México: 1200-0605
64)	RA	760	5	D1 San Cristobal las Casa, Chis. (CP)
65)	ABC	760	5/0.5	U4 "R. International", México: 1200-????
66A)	DGO	a860	1	D1 "R. Capital", Durango
67)	ZZ	760	5	D1 "Zeta", Tonala
68)	ML	770	1	D1 Sistema R. Michoacan, Apatzingán
69)	GK	770	1	D1 Tamazunchale, S.L.P.
70)	BI	790	1/0.25	D1 R. Central, Aguascalientes: 1200-0400
71A)	SU	+790	1	D1 "R. Exitos", Mexicali
72)	NT	790	5/0.75	U1 "R. La Paz", La Paz: 1300-0500
73A)	GZ	780	1/0.25	"La Pantera", Cd. Lerdo: 1300-0400
74A)	RPC	790	5/0.4	U1 "R. Ranchito", Chihuahua: 1255-0500
75A)	RC	790	10/1	U1 "R. Exitos", México: 24h
76)	LN	790	1	D1 "Onda 79", Linares
77A)	VA	790	5/0.2	U1 "R. Tabasco", Villahermosa: 1100-0600
78)	FE	790	1/0.5	U1 "Campeona en Auditorio", Nuevo Laredo: 1155-0200
79)	ROK	800	150	U1 "R. Ochenta, R. Eight Hundred", "X-Rock-80", Cd. Juárez: 24h (English at night)
80)	AN	800	1	D1 R. Ocotlán, Ocotlán
81)	OE	a810	1/0.25	U1 "R. Amistad", Tapachula: 1200-0300
82)	YM	810	1	D1 Morelia, Mich.
83)	UX	+810	5	D1 Tuxpan, Nay: 1300-0500
84)	GO	810	1/0.5	U1 Cozumel, QR: (CP)
85)	RSV	810	5	D1 "R. Variedades", Cd. Obregón
86A)	FW	810	50	U2 "Voz E Imagen De Tampico", Tampico: 1200-0400
87A)	BA	820	1	D1 "El Gallito del 82", Guadalajara
88)	KG	820	1	D1 Fortín de las Flores, Ver.
89A)	LA	+830	10/5	U2 "Buena Musica en Mexico", México: 1300-0603
90)	VQ	830	1	D1 "R. V-Q", Novolato, Sin: 1300-0200
91)	FG	840	1	D1 "R. Juventud, La Familiar", Celaya: 1200-0130
92)	ZR	850	1	D1 Zaragoza
32C)	M	850	5	D1 "La 'M' Moderna", Chihuahua
93A)	MIA	850	1	D1 "R. Felicidad", Guadalajara Jal.
94)	US	°850	1	D1 "R. Universidad de Sonora", Hermosillo: 1700-0200
95A)	TQ	850	100/50	U2 Orizaba
96)	MO	860	5	U1 "Community Radio for San Diego", Tijuana: 1300-0930 (English at night)
97)	AL	860	1	U1 Manzanillo: 1300-0200
98)	RPN	860	1	Ud Cd. Juarez, Chih.
99)	UN	°860	45/25	U4 "R. Universidad", México: 1300-0700
66B)	DU	a860	1/0.5	U1 Durango: 1300-0600
100A)	NL	860	5/2	U2 "R. Recuerdo", Monterrey: 1200-0630
101)	NW	860	1/0.25	U1 Culiacán: 1225-0430
102)	ZX	860	1/0.15	U1 "Voz de Usumacinta", Tenosique: 1200-0200
103)	ACF	870	1	D3 Irapuato, Gto: 1200-0600
104)	LY	870	1	D1 "In Gallito/El Favorito", Morelia
105)	NH	870	1	D1 Escuinapa
106)	TZ	880	10	D1 "Canal 88/R. Felicidad", Tequila
107A)	EM	880	1	D1 "La Voz de Naranjopolis", Río Verde: 1245-0045
108)	PNK	880	5	D1 Los Mochis, Sin.
1B)	W	+°900	250	U1 "La Voz de la America Latina", México: 1200-0615
1C)	WB	900	50/5	U "La Voz de la America Latina", Veracruz, Ver: 1200-0500(relay 1B)
109)	HO	a910	1/0.25	U1 "R. Centro", Cd. Obregón: 1300-0500
110A)	MJ	920	1/0.25	U1 "R. Popular Fronteriza", Piedras Negras, Coah: W 1200-0400(Sun 1300-0130, 0330-0500)
47B)	TAA	920	1/0.1	U1 "Fabuloso Canal 92", Torreón: 1230-0500
111)	VV	920	5/0.25	U1 R. Espectaculo, Chiapa de Corzo, Chia: 1200-0400
87B)	LT	920	1/0.25	U1 "Su Ranchería Consentida", Guadalajara: 24h
112)	OK	920	1/0.25	U1 "Radiazo Mexicano", "R. Hit", Monterrey: 1200-0550
113)	BM	920	5/1	U1 "La Ranchería", San Luís Potosí: 1200-0600
10C)	CQ	920v	1/0.1	U1 R. Culiacán, "La C-Q", Culiacán: 1300-0600
20B)	BH	+*920v	5/1	U1 "Super R, La Pantera", Hermosillo: 1300-0600
114A)	U	°930	5/1	U1 "R. Nuclco Oro", La "U" de Veracruz, Veracruz: 1200-0600

	Call	kHz	kW	Class, location, h. of tr.
115)	WV	+940	1	D1 "R. Capital", Mexicali
1D)	Q	+940	150/50	U1 "La Q de México, México: 1200-0600
116)	GM	950	25/5	U4 "R. 95", Tijuana
117)	YJ	950	1/0.1	U1 "R. Rosita", Nueva Rosita: W 1300-0400; Sun 1300-2100, 0300-0500
118)	RN	950	1	D1 "R. Naranjera", Montemorelos
119)	ORF	950	1/0.5	U1 "R. 95", El Fuerte: 1300-0700
120)	CS	960	1/0.2	U1 Manzanillo: 1200-0600
121)	UQ	960	1/0.25	U1 "R. Zihuatanejo", Zihuatanejo: 1300-0100
122)	HK	960	1/0.25	U1 "La Voz de Guadalajara", Guadalajara: 1200-0700
123)	ROO	a960	1/0.5	U1 "La Pirata del Caribe", Chetumal: 1200-0500
124)	IQ	960	1/0.5	U1 "R-I-Q", Cd. Obregon: 1300-0700
125)	K	960	2/1	U1 Nuevo Laredo: 1200-0400
126)	GB	960	1/0.5	U1 "R. Fiesta", Coatzacoalcos: 1200-0600
127)	OZ	960	1/0.25	U1 "Dimension 96, Un Sol de Alegria", Jalapa: 1200-0600
128)	J	970	10/5	U1 R. Mexicana, Cd. Juárez: 24h. (v966)
44C)	DF	970	10/5	U2 "R. Tres": 24h
129)	UG	970	1/0.25	D1 R. Universidad, Guanajuato
130)	CJ	970	5/0.25	U1 Apatzingán: 1200-0400
131)	OW	970	1/0.25	U1 "R. Variedades", Mazatlán: 1300-0600
36B)	VT	970	5/0.4	U1 Villahermosa: 1100-0500
132A)	BJ	+970	1/0.2	U1 "Canal 97 con Radio Actividad", Cd. Victoria: 1155-0445
133)	O	970	1	U1 "R. Callito", Matamoros: 1100-0600(Sun 0400)
134A)	MH	970	1/0.1	U1 R. Mérida: 1200-0600
135)	NR	980	5/0.5	U1 "La Emisora Grande", Nueva Rosita: 1155-0600
136)	LC	980	5	D1 La Piedad: 1230-0500
137)	XT	980	1	U1 Tepic: 1300-0700
138)	QG	980	1/0.1	U1 Queretaro: 1200-0500
139A)	KE	980	1/0.25	U1 "La Favorita", Navojoa: 1255-0700
140A)	TU	980	10/1	U5 "R. Tampico": 1200-0600
141)	QO	980	5	D1 "R. Romance", Cosamaloapan: 1200-0100
142)	CL	990	5	U1 "R. Mundo", Mexicali: 1300-1700
143)	HZ	990v	1/0.25	U1 "ZETA", La Paz: 1300-0600
144)	TG	990	1	D1 Tuxtla Gutiérrez
48B)	BC	990	1/0.1	U1 R. Cd. Guzmán: 1200-0600
145A)	T	990	50	U2 "La T de Monterrey", Monterrey: 24h
146A)	FV	*1000	1	D1 "R. Ranchería", Cd. Juárez
18B)	OY	°1000	10	U2 "R. Mil", México: 1200-0800
147)	VK	*1010	5/0.1	U1 "R. Mil Diez", "R. Felicidad", Torreón: 1300-0400
148)	TX	1010	1/0.25	U1 R. Casas Grandes, Nuevo Casas Grandes: 1230-0400(Sun 0500)
87C)	HL	1010	10/5	U1 "La Fabulosa HL", "R. Centro", Guadalajara: 24h
149)	WS	1010	5/0.25	U1 "R. Fiesta", Culiacán: 1300-0700
150)	FM	*1010	1/0.2	U1 Veracruz
151)	XL	1020	1	D1 Pátzcuaro: 1255-0500
152)	BR	1020	1/0.1	U1 Macuspana
74B)	QR	+1030	10/5	U1 "R. Centro", México: 24h
3C)	GR	1040	1	D1 Coatepec
71B)	D	1050	10/1	U3 "R. Internacional/La Grand D", Mexicali: 1300-0800
153A)	G	1050	150	U1 "R. Melodia", Monterrey: 24h (English 0100-1200)
154)	EP	1060	1	U2 R. Educación: 1200-0500
155)	IT	a1070	1/0.25	U1 Cd. del Carmen: 1200-0400
156A)	SP	1070v	5/0.5	U1 "R. Juventud", San Pedro Tlaquepaque: 1300-0700
157)	GY	1070	1/0.25	U1 R. Tehuacán: 1200-0500
158A)	CN	*1080	1	D1 "R. CN, Onda Juvenil", Irapuato
159)	PRS	1090	50	U2 "The Big Country/Express", Rosarito: 24h (English)
160)	WL	1090	1	D1 "Las Mas Original", Nuevo Laredo
161A)	OD	+1090	1	U2 "R. Juventud", "La Rancherita", Boca del Río: 1300-0100
162A)	RED	+*1110	50/10	U2 R. Red, RCN La Que le Gusta a Ud, México: 1200-0600
163)	LEO	a1110	5/1	U2 "La Ranchería Consentida", León
164)	SON	1110	1	D1 Navojoa, Son.
165)	JAC	1110	1	D1 Cardenas: 1200-2400
21B)	OQ	1110	1	D1 "R. Juventud 111", Rio Bravo
166)	TR	*1120	1	D1 "R. Ritmos", Cd. Valles
27B)	FN	1130	1	D1 Sistema R. Michoacan, Uruapan
167)	EF	1130	1	D1 "R. Exitos", Compostela, Nay.
168)	HN	1130	1	D1 Nogales: 1400-0300
32B)	QD	1130	10/0.1	U1 "La Divertida", Chihuahua: 1200-0500
169)	ZL	1130	10	U2 R. Juventud, Jalapa: 1200-0600
170A)	XF	1140	5	D1 "R. Bajio", León
8C)	MR	*1140	10/0.35	U2 "La Nueva MR", Monterrey: 24h
171)	TE	1140	1	D1 Tehuacán
172A)	RM	1150	1/0.5	U1 "R. Mexican", "Canal Tropical", Mexicali: 24h
173)	BF	1150	1/0.25	U1 "R. Felicidad", San Pedro de las Colonias: 1300-0200
174)	JS	1150	1/0.5	U1 "R. Chihuahua", Hidalgo del Parral: 1250-0500
75C)	JP	1150	10	U2 "R. Variedades", México: 24h
175)	SO	+1150	5/0.3	U1 "R. Mexicana", Cd. Obregon: -0900
46B)	RTM	1150	1/0.1	U1 Macuspana: 1330-0300
176)	WY	1150	1	D1 Alamo, Ver.
4B)	RRF	1150	1/0.35	U1 "R. Exitola", Merida: 1200-0600
177)	XZ	a1150	1/0.2	U1 "R. 1150", Zacatecas: 1200-0500
178)	VW	1160	1	D1 Acámbaro
179)	IW	1160	1	D1 Uruapan
180)	BE	1160	1	D1 "R. Perote", Perote
181)	QV	1170	50	U4 Arcelia, Gro.
182)	CD	1170	1/0.35	U1 R. Puebla/La Divertida Once Sesenta: 1200-0600
183)	RT	1170	5	D1 R. Hits, "Su Estación Amiga/ Esta en todo", Reynosa
184A)	FR	1180	1/.025	U1 "R. Felicidad", México: 1200-0900
1F)	WK	1190	50/10	U1 "La Voz de la America Latina", Guadalajara: 1200-0500 (rel. 900kHz)
185)	SOL	1190	1	D1 Cd. Hidalgo
186A)	DO	1190	1	D1 "R. Novedades", Jojutla
187)	ZI	a1200	1	D1 "La Onda Juvenil/Canal Festivo 120", Zacapú: 1200-0100
44D)	B	1220	100	U1 "R. Cuatro", México: 24h
188)	SCT	1230	1/0.25	U1 Ensenada, BC.
13B)	LM	a1240	1/0.25	U1 R. Chiapas, Tuxtla Gutierrez: 1300-0500
189)	BN	1240	1/0.25	U1 R.Delicias, "La Onda Feliz", Cd. Delicias: 1300-0400
170B)	RZ	1240	1/0.25	U1 "El Radiazo Mexicana", Leon: 1200-0530
190)	LD	1240	1/0.1	U1 R. Autlán, Autlán de Navarro: 1200-0500
191)	SI	1240	1/0.3	U1 Santiago Ixcuintla: 1300-0500
192)	NG	1240	1/0.2	U1 "Circuito de la Sierra y la Huasteca", Huauchinango: 1300-0400
193)	IF	1240	1/0.25	U1 San Blas, Sin.
194)	BQ	1240	1/0.5	U1 Guaymas: 1155- ?
195A)	CG	1240	1/0.25	U1 "La Emisora de Moda", "R. Juventud", Nogales: 1400-0700

	Call	kHz	kW	Class, location, h. of tr.
140B)	S	1240	1/0.25	U1 "R. Jet", Tampico: 1200-0400
134B)	MQ	°1240	1/0.25	U1 "Su Pantera", Merida: 1200-0600
26B)	SC	1250	1	D1 "La Divertida", Sabinas (CP)
196)	SJ	1250	1/0.5	U1 R. Saltillo, "La Estación Importante": 1155-0600
197)	MG	1250	1/0.25	U1 Arriaga: 1155-0400
198)	PI	1250	1/0.1	U1 "La Consentida de Guerrero", Tuxtla: 1200-0300
57B)	DK	1250	5/1	U1 "R. Melodia/Super Novelas", Guadalajara: 1200-0700
199A)	JX	1250	1/0.1	U1 Queretaro: 1200-0400
200)	DL	a1250	1/0.5	U1 R. Capital, Hermosillo: 1300-0700
161B)	TF	1250	1/0.5	U1 La Jarocha, Veracruz: 1130-0600
201)	MF	1260	1/0.25	U1 "R. Monclova, La Primera Estación", Monclova: 1200-0600
202A)	OG	1260	1/0.25	U1 "R. Ranchito", Ojinaga: 1300-0300
184B)	L	1260	10/1	U1 "R. Capital", México: 1200-0900
203)	R	1260	1/0.25	U1 R. Linares: 1155-0400
29B)	XR	1260	1	D1 "R. Variedades", Cd. Valles
204)	SIN	1260	5/0.5	U1 Culiacan, Sin.
205)	DW	*1260	1/0.25	U1 Minatitlán
206)	OH	1270	1/0.15	U1 Cd. Camargo, Chih: (CP)
207)	RPL	1270	1/0.15	U5 "R. Ranchito", León: 1005-0700
208)	QH	1270	1/0.1	U1 Ixmiquilpan, Hgo.
209)	AX	1270	5/0.5	U1 R. Actualidades, Oaxaca: 1200-0500
210)	XD	1270	5/0.5	U1 R. Sensación Canal 145, Atlixco
211)	NX	*1270	1/0.15	U1 "La Nueva Onda 1270", "La Poderosa N-X", Mazatlán: 1155- ?
212)	GL	1270	1/0.5	U1 "La Triunfadora", Navojoa: 1255-0600
213A)	NY	1270	1/0.25	U1 "R.Geny",Nogales:1300-0700
214)	MW	a1270	1	D1 R. Variedades, "R. Exito", San Luís Río Colorado
215)	PV	1270	1/0.25	U1 Papantlá: 1300-0300
216)	YUC	1270	1/0.5	U1 "R. Caravana", Merida,
217)	KY	1280	1/0.1	U1 "R. Modernista", Huixtla: 1155-0400
218)	BW	1280v	1/0.6	U1 "R Variedades", Chihuahua: 1200-0500
219)	QP	1280	1/0.25	U1 "R. Variedades", Guadalajara: 24h
220)	AW	1280	5/0.5	U1 "La Estactión de la Musica Inolvidable", Monterrey: 1200-0800
221A)	EG	*1280	1/0.25	Puebla: 1100-0600
17B)	AG	1280	1	U1 Cordoba: 1200-0400
177B)	LK	a1280	5/0.25	U1 "Onda Juvenil", Cacatecas: 1300-0400
222)	DB	1290	1/0.25	U1 "R. Tonalá", Tonalá
89B)	DA	1290	10/1	U1 "R.Trece", México:1230-0630
223)	IX	1290	1/0.1	D1 Jiquilpan
224)	AP	1290	1	D1 "R. Mundo", Cd. Obregón: 1200-0500
225)	ABA	1300	1/0.1	U1 Nueva Rosita, Coah.
226)	P	1300	1/0.5	U1 "R. Trece", Cd. Juárez: 24h
227)	SW	1300	1	D1 R. Cd. Madera, "R. Sierra", Cd. Madera: 1300-0200
228)	XV	²1300	1	U1 R. Trece, León: 1200-0500
229)	JL	1300	1/0.25	U1 R. Guamuchil: 1300-0500
195B)	XW	1300	1/0.1	U1 "R. Trece", Nogales: 1300-0500
230A)	HU	1300	5/0.1	U5 R. Tropical, Martínez de la Torre
73B	BP	²1310	10/0.25	U1 "R. Alegría", Torreón: 1300-0400
231)	TAP	1310	1	D1 Tapachula
232)	RU	°1310	1/0.25	U1 R. Universidad Chih
87E)	TIA	1310	1/0.25	U1 "La Cotorra Tropical", "Onda Feliz", Guadalajara: 24h
233)	VB	1310	1/0.25	U1 Villa de Juarez, NL
234)	FH	1310	1	D1 Agua Prieta
235A)	AM	1310	1/0.25	U1 "La M Grande", Matamoros: W 1100-0700
114B)	HV	1310	1	U1 "R. Trópico", Veracruz: 1200-0500
236)	UP	1310	1/0.25	U1 "La Voz del Caribe", Tizimín: 1200-0500
237)	UI	1320	1/0.5	U1 R. Comitán: 1200-0400
238)	JZ	1320	1/0.25	U1 Cd. Jiménez: 1300-0300
75D)	CMQ	1320	10/5	D2 "R. Sensación", México: 24h
239)	CY	1320	1/0.25	U1 Huejutla
240)	NI	a1320	1/0.25	U1 "La Voz de Nueva Italia": 1300-0100
241)	RQ	1320	1/0.1	U1 Montemorelos, NL (CP)
242)	UH	1320	1/0.1	U1 Tuxtepec: 1200-0400
24)	RJ	*1320	5/0.5	U1 "Radio Mazatlán": W 1230-0500 Sun 1200-0400
243)	WQ	1330	1/0.25	U1 Monclova: 1200-0600
244)	BO	1330	1	U2 "Sensacional", Irapuato: 24h
245)	UAS	1330	5/1	U2 "R. Universidad", Culiacán, Sin.
246A)	RP	1330	1/0.1	U1 "R. Mexicana", Tampico: 24h
230B)	UZ	1330	1/0.1	U1 R. Veracruzana, Martinez de la Torre: 1200-0600
4C)	FC	1330	1	U1 "El Fabuloso Canal 130 Solo Exitos", Merida: 1200-0600
247)	AA	1340	1/0.25	U1 "R. Doble A", Mexicali: 24h
248)	DH	1340v	1/0.25	U1 Cd. Acuña: 1200-0600
249)	KK	1340v	1/0.25	U1 "La Voz de Delicias, La Grande JK", "R. Amistad", Cd. Delicias: 1200-0500
250)	CI	1340	1/0.25	U1 Onda Internacional, Acapulco: 1200-0800
57C)	DKT	1340	1/0.25	U1 "R. Ranchito", Guadalajara: 1200-0600
8D)	NV	+1340	1/0.25	U1 "R. Alegría", Monterrey: 24h
251)	CW	1340	1/0.2	U1 Los Mochis: 1300-0700
132B)	RPV	1340	1/0.25	U1 "La Nortenita, La V de Victoria", Cd. Victoria: 1300-0200
252)	OM	1340	1/0.25	"R. Amistad, Coatzacoalcos: 1200-0600
253)	MA	1340	1	D1 Fresnillo: 1200-0500
47)	TB	1350	5/0.5	U1 "R. Laguna", Torreón: 1230-0500
254)	QK	+°1350	1	U1 "La Hora Exacta", La Hora Exacta del Observatorio Nacional, México: 24h
255)	JY	1350	1	D1 R. Sistema del Sureste, El Grullo: 1300-0100
256)	TM	1350	1	U1 "El Heraldo de la Frontera", Naco, Son.
257)	LS	1360	1/0.1	D1 Armeria, Col.
74B)	DI	1360	1/0.2	U1 "R. Mundo", Chihuahua: 1300-0500
258A)	Y	1360	1/0.25	U1 R. Celaya: 1200-0500
259)	KF	1360	1/0.5	U1 "La Estrella del Sur", R. Ka Efe, Iguala: 1155-0500
260)	TP	1360	5	D1 Cd. Valles, S.L.P.
261)	SA	1360	1/0.5	U1 Culiacán: 1300-0500
262)	DQ	1360	1/0.1	U1 "R. Alegría", San Andrés Tuxtla: 1200-0600
263)	A	1370v	1	U1 "La Voz de R. Variedades", Campeche: 1155-0400
264)	RPO	1370	1/0.1	U1 Durango, Dgo.
93B)	PJ	1370	1/0.5	U1 "R. Capital", Tlaquepaque: 1200-0700
265)	MON	1370	10	U2 Monterrey, NL
266)	PA	1370	5/1	U2 R. Trece Sesenta, "Su Favorita", Puebla: 1200-0600
267)		1370	10/5	U2 Cd. Obregon, Son.
195C)	HF	1370	5	U1 "R. Familiar", Nogales: 1255-0700
268)	ZW	1380	1/0.25	U1 Cd. Hidalgo, Chis.
18C)	CO	1380	5	U1 "R. Eco', México: 1100-0800
269)	FAC	1380	1	D1 R. Salvatierra/Paraiso Musical del Bajio, Salvatierra, Gt.

	Call	kHz	kW	Class, location, h. of tr.
270)		1380	1/0.5	U1 Tepic, Nay.
271)	KV	1380	1/0.5	U1 "R. Mexicana", Villahermosa: 24h
272)	YB	1380	1	U2 Cosamaloapan, Ver.
273)	TY	1390	5/0.25	U1 "R. Tecomán": 1300-0400
274)	SX	1390	5	D1 Tuxtla Gutierrez, Chis: (CP)
275)	V	1390	1/0.5	U1 Chihuahua, Chih.
276)	RW	1390	1/0.25	U1 "La Divertida", León: 1230-0530
277)	JI	1390	2.5/0.3	U1 Tehuantepec, Oax.
278A)	XO	1390	5/1	U1 "X-E, Exito", Cd. Mante: 1200-0600
279)	OR	1390v	1	U1 "R. Gallito", Reynosa: 1145-0615
280)	TL	1390	5/1	U1 "La Voz de las Huastecas", Tuxpam, Ver: 1200-0430
281)	ARO	1400	1/0.15	U1 Nueva Rosita
282)	GD	1400	1/0.2	U1 "R. Novedades", Hidalgo del Parral: 1200-0600
283)	QJ	1400	1/0.1	U1 R. Sistema del Sur Tamazula: 1300-0100
284)	I	1400	1/0.25	U1 "La Aplanadora del Cuadrante", Morelia: 1200-0400
285)	LH	1400v	1	D1 Acaponeta: 1300-0100
286)	UBJ	1400	1/0.2	U1 Universidad Benito Juarez, Oaxaca
287)	PB	1400	1/0.2	U1 R. Catorce, Hermosillo: 1300-0800
288)	AB	*1400	1/0.25	U1 Santa Ana: 1400-0500
246B)	TO	1400	1/0.25	U1 "Radiorama, Canal 140", "La Nueva T-O", Tampico: 24h
289)	RUY	1400	1/0.25	U1 Universidad de Yucatan
290)	YD	1410	1/0.1	U1 "Formula Musical", Torreón: 1200-0400
18D)	BS	1410	5/1	U1 "R. Sinfonola", "En Musica Ranchera la Mera", México: 1200-0800
291)	KB	1410	5/0.25	U1 "Canal 14-10", Atemajac: 1200-0700
292)	IR	1410	1	D1 Cd. Valles, S.L.P.
293)	CF	1410	1/0.5	U1 "R. Impacto", Los Mochis: 1245-0600
77B)	TAB	1410	1/0.5	U1 La Voz de Tabasco, Villahermosa: 1200-0400
294)	RCM	1410	1/0.15	Cd. Victoria, Tams.
295A)	AS	²1410	1/0.25	U1 "R. Juventud", Nuevo Laredo: 24h. (v1412.5)
296)	XX	1420	2	D1 "R. Ranchería", "La Double Equis", Tijuana: 1400-0900
146C)	F	1420	5/0.5	U1 "Mexicorama", "R. Fiesta", Cd. Juarez: 1200-0600 (English 2200-0200)
158B)	WE	1420	10/0.18	U1 R. Irapuato: 1100-0600
297)	RD	1420	1/0.25	U1 Pachuca: 1300-0400
186B)	WF	1420	1	U1 "R. Fiesta", Cuernavaca
298)	H	+1420	1	U1 "R. Actualidades", Monterrey: 1200-0500
299)	WJ	1420	1/0.25	U1 R. Popular, Tehuacán: 1200-0400
300)	GW	1420	1/0.15	"La Estación de la Familia", Cd. Victoria: 1100-0500
301)	EW	1420	5/2.5	U4 Matamoros: W 1155-0430
302)	JV	1420v	1/0.25	U1 "R. Ondas", Jaltipan: 1155-0200 (rep. on 1445kHz)
303)	IA	1430	1/0.25	U1 Allende, Coah.
304)	IG	a1430	1/0.1	U1 RCN de Iguala, Iguala: 1200-0500
305)	CA	1430	5/0.25	U1 Ixtepec, Oax: (CP to move from 1480)
306)	TUN	1430	1	U1 San Luis Potosi, S.L.P.
307)	OX	+1430	5/0.5	U1 "O-X 14-30", Cd. Obregón
308)	WD	1430	2/0.15	U1 "R. Favorita", Cd. Miguel Alemán: 1155-0400
114C)	LL	1430	1/0.25	U1 R. Onda, Veracruz: 1130-0600
309)	VSD	1440	1/0.15	U1 "La Señal del Progreso", Villa Constitución: 1300-0600
310)		1440	5	D1 Parras, Coah.
311)	EA	1440	5/1	U1 Cd. Camargo, Chih.
75)	AI	1440	1/0.1	U1 "R.A.I. Canal Tropical", México: 24h
312)	EK	1440	1	D1 Cheran, Mich.
313)	SS	1450	1/0.25	U1 "R. Fiesta", Ensenada: 1400-0800
314)	FK	1450	1/0.25	U1 Torreón, Coah.
315)	IN	1450	1/0.2	U1 Cintalapa, Chis.
316)	QU	1450	1/0.25	U1 Ojinaga, Chih.
317)	RY	1450	1/0.1	U1 "La Voz del Sur", Arcelia: 1200-0400
318)	GC	a1450v	1/0.25	U1 Sahuayo: 1300-0300
145B)	JM	1450	1/0.25	U1 "R. Moderna, la Maquina", Monterrey: 1155-0555
199B)	NA	1450	1/0.25	U1 R. Emisora Queretana, Queretaro: 1200-0400
319A)	CM	°1450	1/0.25	U1 "Onda 145", Cd. Mante: 1200-0200
320)	VH	+1450	1/0.25	U1 "La Nortena del Cuadrante", Villahermoso: 1200-0400
321)	KM	1450	1/0.25	U1 R. Mina, Minatitlán: 1100-0600
322)	PP	1450	1/0.25	U1 R. Don Pepe, Orizaba: 1200-0600
323A)	JD	1450	1/0.25	U1 "R. Tropicana", Poza Rica: 1215-0430
324)	PD	1460	1	D1 Nueva Rosita, Coah.
325)	YC	²1460v	1	U1 "R. Ysela", "R. Variedades", Cd. Juárez: 1200-0800
326)	LX	1460	10	U2 R. Zitácuaro, "Habla Michoacan desde Zitácuaro", Zitácuaro: 1300-0100
327)	XQ	°1460	1	U1 "R. Universidad", San Luis Potosi: 1400-0500
328)	HX	1460	1/0.25	U1 "R Ritmo", "R. Juventud", "R. Yaqui", Cd. Obregón: 1300-0500
140D)	OLA	1460	1	U1 "R. Ola, La Mas Tropical", Altamira: 1200-0400
329A)	BBC	1470	5	U1 Tijuana: 1330-0800
330)	AY	1470	1/0.25	U1 Parras, Coah.
331)	HM	1470	1/0.1	U1 Cd. Delicias, Chih.
59D)	DS	1470	1/0.2	U1 "R. Juventud", Colima: 1255-0400
44E)	SM	²1470	10/5	U1 "R. Cinco", México: 24h
66C)	CAV	a1470	1/0.25	U1 "R. Durango, R. Internacional": 1300-0500
158C)	YA	1470	1	D1 Irapuato
332)	LOM	1470	5	U2 Loma Bonita, Oax.
333)	ACE	1470	1	D1 Mazatlán, Sin.
334)	HI	1470	1/0.25	U1 "R. 147", Cd. Miguel Alemán: 1200- ???
335)	QS	1470	1	D1 Fresnillo, Zac.
336)	XU	1480	1	D1 "La Romantica", Villa Frontera, Coah.
337)	XC	1480	1/0.12	U1 Taxco: 1300-0300
220B)	TKR	1480v	1/0.5	U1 "La Nortena del Cuadrante", Monterrey: 1100-????
139B)	NS	1480	1	U2 "La Ranchería", Navojoa.
323B)	PR	²1480	5/0.5	U1 R. Poza Rica, Poza Rica: 1200-0400
338)	DG	1490	1/0.25	U1 Chihuahua, Chih.
339)	JR	1490	1/0.2	U1 Hidalgo del Parral, Chih.
340)	ED	1490	1/0.25	U1 Ameca: 1300-0300
341)	GT	1490	1/0.25	U1 "R. Alegría", Zamora: 1200-0500
342)	XE	1490	1/0.2	U1 "R. Hit", Querétaro: 1200-0600
343)	FF	1490	1/0.25	U1 "Canal 1490", Matehula: 1200-0400
344)	DR	1490	1/0.25	U1 Guaymas: 1200-0515
44F)	RH	²1500	20/5	U2 "R. Seis", México: 1100-0800 (spurs on 1484, 1513)
345)	YQ	1510	1	D1 Fresnillo, Zac.
346)	VUC	1520	1	D1 Villa Union, Coah.
347)	ACC	1520	1	D1 Cd. Camargo, Chih.
348)	EH	1520	1	D1 "R. Sonora", San Luís Río Colorado
349)	ZQ	1520	1/0.1	U1 "R. Futurama", "R. Triunfadora", Huimanguillo: 1130-0230

	Call	kHz	kW	Class, location, h. of tr.
278B)	YP	1520	1	D1 "La Divertida", Limón: 1130-0200
18E)	UR	1530	5	U3 "R. Onda", "La Reina del Ritmo Tropical", México: 1200-0600
350)	SD	1530	1/0.1	U1 R. Variedades, Silao: 1300-0515
167)	EF	1530	1	D1 Compostela, Nay.
258B)	NC	1540v	1/0.25	U1 "R. Novedades", Celaya: 1200-0500
351)	NJ	1540	1	D1 San Juan de los Lagos: 1300-0500
352)		1540	1	D1 Matchuala, S.L.P.
353)	BG	1550	1	U1 "La Chica Musical", Tijuana: 24h exc. Mon (English, soul music at night)
295B)	NU	1550	5	D1 "La Rancherita Contenta", Nuevo Laredo
354)	XB	1550	10	U1 Jalapa, Ver.
355)	SE	1560	5	D1 "La Voz de Campeche", Champotón
356)	QZ	1560	1/0.25	U1 Cd. Cuauhtemoc, Chih.
146D)	JPV	1560	1	U "R. Inolvidable", Cd. Juarez: 1100-0605
357)	VIP	1560	10/0.5	U2 "Radio VIP", México: 24h (English only: CBS network)
358)	AS	1560	1/0.25	U1 "R. Salamanca", Salamanca: 1300-0500
359)	RMM	1560	1	Tepic, Nay: (CP)
360)	OEC	1560	1	D3 Panzacola, Tlax.
361)	RF	1570	250	U2 Cd. Acuña: 24h (English gospel)
362)	AF	1580	1	D1 Apaseo el Grande, Gto.
363A)	FP	1580	1	U1 "R. Alegría", Jalapa, Zac: 24h
364)	LI	a1580	1/0.25	U1 "Imagen Radial LI", Chilpancingo: 1200-0400
365)	NQ	1580	1/0.5	U1 "La Voz de Hidalgo", Tulancingo: 1200-0400
366)	QL	a1580	1/0.25	U1 "La Popular Q-L, Sonido Brillante", Zamora: 1200-0400
367)	DM	1580	50	U1 "La Grande de Sonora", Hermosillo: 1300-0700
368)	KC	1590	10	D1 Mexicali
369)	BZ	1590	1	D1 "La Rancherita", Cd. Delicias
184C)	VOZ	°²1590	10/5	U1 "R. Voz, Su Voz Familiar", México: 1200-0900
370)	ART	1590	1	U4 Zacatepec, Mor.
371)	ACH	1590	5	D1 "R. 15-90", R. Mexicana, Monterrey, NL (v1580): 24h
372)	PT	²1590v	1/0.1	U1 Misantla: 1200-0310
373)	NMB	1590	10	D1 Valladolid, Yuc.
374)	AE	a1600	1	U1 "R. Centro", Cd. Acuña: 1400-0400
375)	QA	1600	1	D1 Autlan de Navarro, Jal.
376)	ZA	1600	1/0.2	U1 "La Zeta", Los Mochis
	PE	1600	1	D1 Nogales, Son.
377)	ZK	1600	1/0.25	U1 "R. Altena", Tepatitlan: 1300-0300

+245 low power (below 1kW) st's not listed here.

Short Waves:

378)	RMX	5985	50/10	"R. México DF: 1300-1600, 2000-0330(Sun 0530)
18B)	OI	6008v	0.25	"R. Mil", México: 1200-0600 (irr.)
114A)	UW	6020	0.25	"La "U" de Veracruz": irr.
319B)	CMT	6090	1	Onda 145, Cd. Mante: irr.
134B)	QM	6105	0.25	"Su Pantera", Merida: 1200-0600 (irr.)
94)	UDS	6115	1	"R. Universidad de Sonora", Hermosillo: 1600-0400 (irr.)
1B)	WW	6165	10	"La Voz de la América Latina", México: 1400-0500 (irr.)
379)	DPM	6185	1	"La Voz del Maestro", México: W 2300-0300
1B)	WW	9515	10	"La Voz de la America Latina", México: 1400-0500 (irr.)
254)	QK	9555	0.5	"La Hora Exacta", México: 1400-2300 (irr.)
99)	YU	9600	1/0.25	"R. Universidad de México: México: 1400-2400(irr.)
378)	RMX	9705	50/10	"R. México", México: as 5985kHz
20B)	BR	11820	0.15	"La Pantera", Hermosillo: irr.
44F)	RH	11880	5	R. Seis, México: irr.
44F)	RH	15110	5	R. Seis, México: irr.
1B)	WW	15160	10	"La Voz de la América Latina", México: 1400-0500 (irr.)
1B)	WW	15175	10	"La Voz de la América Latina", México (alternate): irr.
378)	RMX	15385	50/10	"R. México", México: as 5985kHz

State abbreviations accepted by Mexican P.O: Ags.=Aguascalientes; B.C.=Baja California; Cam.=Campeche; Chih.=Chihuahua; Chis.=Chiapas; Coah.=Coahuila; Col.=Colima; DF=Distrito Federal; Dgo.=Durango; Gros.=Guerrero; Gto.=Guanajuato; Hgo.=Hidalgo; Jal.=Jalisco; Mich.=Michoacán; Nay.=Nayarit; NL=Nuevo Laredo; Oax.=Oaxaca; Pue.=Puebla; Q.R.=Quintana Roo; Qro.=Querétaro; Sin.=Sinaloa; S.L.P.=San Luis Potosí; Son.=Sonora; Tams.=Tamaulipas; Tab.=Tabasco; Ver.=Veracruz; Yuc.=Yucatán; Zac.=Zacatecas. **Other abbr's:** (titles): Gte.=Gerente (Manager); Conc.=Concesionario (Licensee); Ing.=Ingeniero; Lic.=Licenciado; Admor.=Administrador; Ote.=Oriente.

Addresses and other information

1a) Ap. 418, San Luís Potosí, S.L.P.
1b) Ayuntamiento 54, México, DF.
1cf) Calzada Ermita Iztapalapa 2570, México, DF – Gte: B. Sancristóbal.
1d) Ayuntamiento 52, México, DF.
1g) Guanajuato 215, Penthouse, México, DF – Gte: M. Vargas.
2) Calle Héroes 14, Tehuantepec, Oax – Conc: E. Martínez C.
3abc) Pasaje Tanos 8, Jalapa, Ver – Gte: J. Zendejas L.
4a-c) Calle 64 No. 498, Mérida, Yuc – Gte: R. Rivas F.
6) 590, Torreón, Coah – Gte: F. Valenzuela.
7) Morelos Norte 68, Morelia, Mich – Gte: J. Larís I.
8a-c) Grupo R. Alegría, Madero Ote. 1110-A, 2° piso, Monterrey, NL – Gte: S. Estrada Cruz. **N:** on half hour+ 1350, 0150.
9) Ap. 175, Oaxaca, Oax – Gte: G. H. Rosas.
10abc) Blvd. 5 de Febrero 50 Ote, Culiacán, Sin – Gte: H.M. Félix P – 10a) Ap. 88; 10b) Ap. 231 – Conc: M. Gómez B; 10c) Ap. 233; 10b) **N:** 0500.
11) Morelos 311, Comalcalco, Tab – Conc: R. Medina S.
12) Carranza 3, Piedras Negras, Coah – Conc: A.L. Bres.
13a) Km. 1083 con Cristóbal Colón – 13b) Ap. 240, Tuxtla Gutiérrez, Chis – Gte: R. Olvera P.
14ab) Libertad 1300, 3er piso, Chihuahua, Chih – Gte: R. Uranga P.
15) Vallarta 1458, Guadalajara, Jal – Dir: M. López D.
16) Calle 14 No. 150, Cd. Victoria, Tams – Gte: A. Flores Jr.
17a) Av. 2 No. 720, 2° piso, 17b) Calle 2 No. 721, Cordoba, Ver – Gte: C. Villagómez T.
18a-g) Núcleo R. Mil, Insurgentes Sur 1870, México, DF – Gte: Lic. E. Guillermo Salas. Dir. News: Miss M. Warnholtz – 18b) Calzada la Viga 885. **N:** 1430.
19) 20 de Noviembre 122 Norte, Durango, Dgo – Conc; A. Stevenson T.
20ab) Rosales y Vildósola; 20b) Ap. 68, Hermosillo, Son – Gte: L. Hoeffer O.
21a) Ap. 6, 21b) Ap. 301, both Río Bravo, Tams – Gte: B. Villagrana M.
22) Av. Juárez 1465 Pte, Torreón, Coah – Gte: R. Alvarez.
23) Mina 120, Acapulco, Gro – Gte: A. Masini D.
24) Miguel Escobedo y B. Domínguez, Mazatlán, Sin – Gte: E. Valdés V.
25) Ap. 300, Mérida, Yuc – Gte: R. Vergara.
26ab) Av. Emilio Carranza 168, Sabinas, Coah – Gte: Prof. P. Flores Z. **N:** 1230.
27ab) Portal Rafael Carrillo 8, 2° piso, Edif. Silva, Uruapan, Mich – Conc: D. Escamilla M.
28) Ap. 21, Tehuantepec, Oax – Gte: E. Espeleta G.

29a) Fco. I Madero 35, Cd. Valles, SLP – Conc: R. Castro T – 29b) Carretera México-Laredo 473, Cd. Valles, SLP – Gte: M. Belén A.
30) Zaragoza 745-3, Guasave, Sin – Dir: R. Chávez C.
31) Ap. 18, Fresnillo, Zac – Conc: J. Gallegos R.
32a) Ap. 220, 32b) Venustiano Carranza 21, 32c) Venustiano Carranza 213, all Chilhuahua, Chih – Conc: R.O. Stevenson.
33) Balderas 32, México, DF – Gte: V. Blanco F.
34) 20 de Noviembre 191b Ote, Durango, Dgo – Gte: Bertha B. Stevenson.
35ab) Lerdo 197 Pte, Tepic, Nay – Gte: J. de Jesús Cortés.
36a) Sáenz 45, Villahermosa, Tab – Conc: J. Landero C.
36b) Zaragoza Sur 3, Villahermosa, Tab – Conc: A. Calderón M.
37) Av. Central Sur 109, Tapachula, Chis – Gte: C. López A.
38) Ap. 10, Acapulco, Gro – Gte: I. Gutiérrez.
39a) 5 de Mayo Ote. 110, Monterrey, NL – Gte: J.L. Alcántara. **N:** 39a) Every half h.
40) Angel Flores 8 Pte, Mazatlán, Sin – Gte: H. Herrera M.
42) Ruíz Cortínes 303, Cosamaloapan, Ver – Conc: A. Aguirre S.
43) 5 de Mayo 30 Sur, Fracc. Jardines de Catedral, Zamora, Mich – Gte: F. Elizalde G.
44a-f) Grup R. Distrito Federal, Dr. Río de la Loza 300, 5° piso, México, DF – Gte. Gral: P. Mendizábel exc. 44e) A. Rivera C.
45) Domicilio Conocido, Matías Romero, Oax – Gte: M. Martínez R.
46) Ap. 72, Macuspana, Tab – Gte: A. Curioca T – 46b) Ocampo 16, Macuspana, Tab – Gte: F. Aguilar S.
47ad) Ap. 700, Torreón, Coah – Gte: M. Pérez E.
48a) Orozco 14-206, 48b) Artes 53-57, both Cd. Guzmán, Jal – Gte: J. Valdovinos.
49) Ap. 76, Tapachula, Chis – Gte: J. Padilla G.
50ab) Av. Hidalgo 212, 6° piso, Esq. Blvd. López Mateos, León, Gto – Gte: A. Navarro G.
52) Allende 507, Teziutlán, Pue – Gte: J. Sánchez T.
53) Vicente Guerrero 1105 altos, Guasave, Sin – Dir: O. Chávez C.
54) Ap. 100, Tijuana, BC – Gte: Ing. C. Ceceña Legaspi.
55) Reforma 403, México, DF – Gte: S. Rodríguez M.
57a) Ap. 76, 57bc) 16 de Septiembre 456, all Guadalajara, Jal – Gte: C.P.A. Rodriguez R.
58) Hidalgo 306, Múzquiz, Coah – Dir: L. Isaac Elías.
59ab) 27 de Septiembre 328, Colima, Col – Gte: J. Levy.
60) 1a Av. Norte 2, Tuxtla Gutiérrez, Chis – Adm. Gral: Ing. A. Pereda L.
61) Ap. 95, Tepic, Nay – Gte: J. Mondragón.
62) 5 de Mayo 8, Edif. 5 de Mayo, Oaxaca, Oax – Gte: R. García C.
63ab) Morelos 16, México 1, DF – Gte: M. O'Farrill Z. Re. to J. Galina V, Dir.Depto. de Continuidad y Promoción; 63b) Gte: J. Garcia C.
65) Cuauhtémoc 35, México, DF – Gte: C.M. Ferraez M.
66abc) 20 de Noviembre 105 Pte, Durango, Dgo – Gte: H. Betancourt. **N:** 1300(66a), 0430(66c).
67) Juárez 595, Guadalajara, Jal – Gte: G. Jiménez M.
68) Constitución Nte. 10 altos, Apatzingán, Mich – Gte: I. Navarro Q.
70) Madero 310, Aguascalientes, Ags – Gte: P. C. Rivas.
71abc) Zacatecas y Uruapan, 71a) Ap. 1640, all Mexicali, BC – Gte: L. Blando L.
72) Ap. 105, Colima del Sol, La Paz, BC Sur – Gte: F. King.
73a) Ap. 6, Torreón, Coah – Gte: R. Boone M – 73b) Cepeda Sur 409.
74ab) Victoria 114, Chihuahua, Chih – Gte: E. Chapa T.
75a-h)Organización R. Centro, Articulo 123, No.90, México 11, DF – Dir. Gral: F. Aguirre J.
76) Ap. 81, Linares, NL – Gte: C. Serna A.
77ab) Pino Suárez 504-506, Villahermosa, Tab – 77a) Gte: J. Nazar J – 77b) Gte: F.J. Lozano.
78) Aldama 2611,Nuevo Laredo,Tams – Conc: R.Tijerina C.
79) Ap. 266, Cd. Juárez, Chih – Gte: J. Gonzales C. Dir.Tec: Ing. Ed.R. Liaño.
80) Juarez 127, Octolán, Jal – Gte: J.M. Chávez.
81) 6a Av. Norte, Guerrero 1, Tapachula, Chis – Gte: E. Rosas A.
83) Hidalgo y Progreso, Tuxpan, Nay – Gte: S. Herena B.
85) Ap. 75, Cd. Obregón, Son – Gte: F.G. Villela.
86a-c) Av. Ejército, Nal. 713, Tampico, Tams – Gte: Ing. V. Flores. **N:** 0100, 0300.
87a-i) Ondas de Alegria, Glorieta R. Centro, Av. de las Ciencias 260, Fracc. Circunvalación-Vallarta, Guadalajara, Jal – Gte: A. Díaz Romo – 87b) Gte: F. Javier Díaz – 87fghi) Gte: V.M. Díaz. Re. to B.M. Aldrete, Depto. de Personal.
88) Ap. 4, Fortín de la Flores, Ver – Gte: C. Villagómez T.
89abc) Tiber 100, 8° piso, México 5, DF – Dir. Gral: Lic. J. Luís Fernández.
90) Czda. Almada 29 altos, Novolato, Sin – Gte: S. Aguilar M.
91) Independencia y Madero, Edif. Salgado, Celaya, Gto – Gte: R. Olivares y Gascón.
92) Zaragoza 505 Sur, ler piso, Zaragoza, Coah – Gte: T. García J.
93a) Hidalgo 564, Guadalajara, Jal – Gte: S. Rubio – 93b) Carretera Nueva A Chapala s/n, San Pedro Tlaquepaque – Gte: J.J. Cortes B.
94) Ap. 106, Universidad de Sonora, Domicilio Conocido, Hermosillo, Son – Dir: A. Merino M.
95a) Av. Oriente 4, No. 5b, Orizaba, Ver – Gte: J.L. Reneaum A.
96) Ap. 860, Tijuana, BC – Gte: Gustavo E. Aztiazarán R.
97) Baldino Dávalos 17, Manzanillo, Col – Gte: J. Olalde G.
99) Cd. Universitaria, México, DF – Gte: A. Zayas. Re. to R. López Malo, Jefe de Programación.
101) Carrasco 107 Nte, Culiacán, Sin – Gte: H. Ramos R.
102) Calle 23 No. 15 altos, Tenosique, Tab – Gte: Ma. de Lourdes Torres G.
104) Morelos Nte. 90, Morelia, Mich – Gte: Humberto Morales M.
106) Calle 24 de Enero No. 19, Tequila, Jal – Gte: D. Flores P.
107ab) Hidalgo 7A, Río Verde, SLP – Gte: C. Martínez.
109) Veracruz 63 altos, Cd. Obregón, Son – Gte: M. González.
110ab) Zaragoza Sur 607, Piedras Negras, Coah – Gte: R. Elizondo C.
111) Domicilio Conocido, Chiapa de Corzo, Chis – Conc: O. Chong V.
112) Monterrey 698 esq. Cerralvo, Col. Libertad, Monterrey, NL – Gte: F. Redondo.
113) Madero 313, San Luís Potosí, SLP – Gte: B. Briones.
114a+d) Independencia 1656, Veracruz, Ver – Gte: Lic. F. Pazos de la Torre – 114b) Ocampo 119, 7° piso, 114c) Ocampo 50, Desp. 301, both Veracruz, Ver.
115) Altamiro 107 altos, Mexicali, BC – Gte: I. Merino de la Cruz.
116) Ap. 123, Tijuana, BC – Gte: J. Liberman.
117) Ap. 16, Nueva Rosita, Coah – Gte: J.F. Elizondo Jr.
118) Carretera Nacional Km. 908, Montemorelos, NL – Dir. Gral: J.A. Gámez G.
119) Ap. 1, El Fuerte, Sin – Dir: L. Manterola T.
120) Ingenieros 14, Manzanillo, Col – Conc: J. Romo V.
121) Cuauhtémoc 20, Zihuatenejo, Gro – Conc: J. Barajas B.
122) Pedro Moreno 315, Guadalajara, Jal.
123) Ap. 96, Chetumal, QR – Gte: Wilbert A.R. Boeta.
124) Km. 1863 Carretera, Guadalajara – Nogales, Esperanza, Son – Gte: D. Penuñuri.
125) Gral. González 1609, Nuevo Laredo, Tams – Conc: R. Villarreal.
126) 3a Hidalgo 37, Coatzacoalcos, Ver – Gte: C. Esquivo.
127(Pasaje Enríquez, Suite F, Jalapa, Ver – Gte: L.I. Santibañez P.
128) Constitución 402, Cd. Juárez, Chih – Gte: P. Meneses H.
129) Domicilio Conocido, Guanajuato, Gto.
130) Constitución Nte. 2 altos, Apatzingán, Mich – Gte: M. Flores E.
131) Leandro Valle y Aquiles Serdán, Mazatlán, Sin – Gte: P. Xibille P.
132ab) Matamoros 738, Cd. Victoria, Tams – 132a) Gte: F. Elizalde R – 132b) Gte: A. Elizalde R.
133) Calle 10a No. 145 altos, Matamoros, Tams – Gte: R. Garza Cantú.
134ab) Calle 62 No. 526, Mérida, Yuc – Gte: A. Iglesias V.
135) Juárez 6 altos, Nueva Rosita, Coah – Gte: D. Boone M.
136) Madero 116, La Piedad, Mich – Dir: H. Guizar C.
137) Veracruz 135 Norte altos, Tepic, Nay – Gte: M. García de la Cadena.
138)Corregidora 123 Sur altos, Queretaro, Qro – Gte: S. Rosiles.

139a) Matamoros 1001 Pte, 139b) Av. Obregón y Calle Pesqueira, both Navojoa, Son – Gte. Gral: 139a) J.S. Terminal Conc: 139b) J.M. Infante.
140a-d) Diaz Mirón 301, 140b) Ap. 83, all Tampico, Tams – Gte: G. de la Rosa; 140a) **N:** on the hour + 1330, 1845, 0540.
141) Hidalgo 309, Cosmaloapan, Ver – Conc: Z. Muñoz de A.
142) Av. Madero 21, Mexicali, BC – Conc: A.A. Lacarra.
143) Km. 5 Carretera Transpeninsular, La Paz, BC Sur – Conc: F.F. Aréchiga.
144) Ap. 600, Tuxtla Gutiérrez, Chis – Conc: A. Siman H.
145a+b) 15 de Mayo 650 Ote, 145c) Jiménez Nte. 730, all Monterrey, NL – Gte. Gral. (145a): J. Orozco. **N:** on the hour. Dir.(145c): E. Estrada.
146a+c) Pasaje Ramón Corona 2, Edif. Continental, Cd. Juárez, Chih – Adm: A Villegas – 146d) Domicilio Conocido, Zaragoza de los Bravos, Chih – Conc: J. Partida V.
147) Ap. 505, Torreón, Coah – Gte: J.B. López Torres.
148) Ap. 59, Nuevo Casas Grandes, Chih – Gte: L.F. Molinar.
149) A. Obregón 173 Sur, Culiacán, Sin – Dir: Dr. F. Rivadeneira.
150) Av. Independencia 144 ler piso, Veracruz, Ver – Conc: J.L. Bravo.
151) Portal Arteaga 2, Pátzuaro, Mich – Gte: J. Rodríguez L.
153a-c) Cuauhtémoc Nte. 725, Monterrey, NL – Dir: Lic. T. Bichara; **N:** on 153a) from 220) hourly 45 min's past the h and from 18) at 1430.
154) Dirección General de Educatión Audio-Visual, Av. Circunvalación y Tabiqueros, México, DF.
155) Av. Ultimo Paseo 4 Calle 43, Cd. del Carmen, Camp – Gte: M.A. Boeta B.
156ab) Av. López Mateos 328, Guadalajara, Jal – Gte: R. Rubio.
157) Independencia 201, Tehuacán, Pue – Gte: R. Valiente M.
158a) Guerrero 48, Desp. 2, 158bd) Ap. 118, 158c) Tres Guerras 23-4, all Irapuato, Gto – Gte: (158bd): J.A. Hernández. Gte: (158c) A. Conreras H.
159) Domicilio Conocido, Rosarito, BC – Gte: Ing. J. Wilkins G.
160) Allende 1504 y 1514, Nuevo Laredo, Tams – Gte: F.J. Cortés.
161a) Domicilio Conocido, Boca del Río, Ver – 161b) Bravo 1103, 2° piso, Veracruz, Ver – Gte: I. Díaz Rodríguez. Re. to V. Gómez B.
162ab) Vallarta 1, México, DF – Gte(162a): A. Jimenez P; Gte(162b): A. Jiménez K.
163) Madero y Gante Sur, León, Gto – Gte: Z. Escalante N.
165) Esq. Edriano y Ruiz Rojas, Cardenas, Tab – Gte: A. Calderón.
166) Ap. 160, Cd. Villes, SLP – Gte: R. Aguilar.
167) Hidalgo 226, Compostela, Nay.
168) Camino al Rastro Mpal s/n, Nogales, Son –
169) Pasaje Revolución Locales 5 y 7, Jalapa, Ver – Gte: D. Mondragón.
170a) Blvd. A. López Mateos 202, ler piso, León, Gto – Conc: G. Montes R – 170b) Edif. Sears, León, Gto – Gte: G. Quirogade la Hoz.
171) Ap. 182, Tehuacán, Pue.
172a) Ley de Alfabetización 257, Desps, 1, 5, 6, 7, Mexicali.
173) Czda. Bolívar 420, San Pedro de las Colonias, Coah – Gte: A. Valdés G.
174) Ap. 140, Hidalgo del Parral, Chih – Gte: M. Orpinel M.
177ab) Miguel Auza 10, Zacatecas, Zac – Gte: E. Llamas F.
178) Allende 16, Acámbaro, Gto – Gte: R.E. Morales H.
179) Mazatlán 30, Uruapan, Mich – Conc: V. López F.
180) Diagonal-Humboldt s/n, Perote, Ver – Gte: R. Molina R.
182) Av. Juárez 2108, 4° piso, Puebla, Pue – Conc: J.B. Ponce de León T.
183) Ap. 52, Reynosa, Tams – Gte: A. Karam K.
184a-d) Grupo Acir, Insurgentes Sur 70, México 6, DF – Dir.Gral: F. Ibarra L – 184b) Calzada La Viga 449, México, DF.
185) Altos Mercado Emiliano Zapata, Cd. Hidalgo, Mich – Gte: M. García T.
186ac) Casta Latino Americana, Lócal G, 186b) Hidalgo 17-204, all Cuernavaca, Mor – Gte: D. Rubio Garcia.
187) Ap. 65, Zacapú, Mich – Conc: G. Calzada C.
189) 3a Norte 305, Cd. Delicias, Chih – Gte. Gral; R, Uranga.
190) Av. Hidalgo 10, Autlán de Navarro, Jal – Admor: M.P. de Medina.
191) Ap. 22, Stgo. Ixcuintla, Nay – Gte: J. Mondragón G.
192) Moctezuma 2, Huauchinango, Pue – Conc: N. Rodríguez T.
194) Av. Serdán y Calle 22, Guaymas, Son – Gte: A. Padilla R.
195a) A. Alvaro Obregón 452, 195b) Ap. 199, 195c) Elías 10, all Nogales, Son – Conc: (195a): R. Chavez C; Conc: (195c): A. Padilla N.
196) Allende Norte 509, Saltillo, Coah – Gte: J. Ruíz S. **N:** 0200.
197) Calle 4a, Ote. 4, Arriaga, Chis – Conc: N. Vásquez G.
198) Carretera Chilapa, Las Fondas, Tuxtla, Gro – Gte: A. Peyrón G.
199a) Ap. 64, 199b) Av. Zaragoza Pte. 15, both Queretaro, Qro – Gte: S. Rodríguez M.
200) Zaragoza y Carretera Internacional, Hermosillo, Son – Gte: E. Esquer V.
201) Zaragoza 158, Monclava, Coah – Gte: Lic. H. Medina A. **N:** on the h.
202) Ap. 29, Ojinaga, Chin – Dir: A. Sáenz.
203) Km. 856.3 Carretera México-Laredo, Linares, NL – Gte: M. Angel M.G.
205) Hidalgo 44, Minatitlán, Ver – Gte: A. de la Corda.
207) Km. 15.5 de la Carretera León, Cuerámaro, León, Gto – Gte: J. Rogelio Ezquerra.
209) Colón 301 altos, Oaxaca, Oax – Gte: A. Márquez.
210) Calle 7 Portal Morelos, Atlixco, Pue – Gte: G. Martínez G.
211) Belisario Domínguez 13 Sur, Mazatlán, Sin – Dir: I. Cuervo G.
212) Av. Juárez 9, Navojoa, Son – Gte: F.M. Gómez Jr.
213ab) Av. Alvaro Obregón 28-1, Nogales, Son – Conc: R. Guzmán R.
214) Ap. 203, San Luís Río Colorado, Son – Gte: F. Gutierrez M.
215) Enriquez 404, Papantlá, Ver – Gte: J. Vázquez G.
216) Ap. 33, Campeche, Camp – Gte: J. Lanz P.
217) Av. Central 8 y Guerrero 14 altos, Huixtla, Chis – Conc: J.M. Infante.
218) Libertad 9, piso 16, Chihuahua, Chih – Gte: V.M. Martínez.
219) Juárez 171-504, Guadalajara, Jal – Gte: F. Gayón G.
220ab) Grupo Estrellas de Oro, Paricutín Sur 316, Col. Roma, Monterrey, NL – Gte: F.A. González. **N:** 45 past each h + 1330, 1350, 1430, 0150.
221ab) 2 Ote. 6-602, Puebla, Pue – Gte: R. Bojalil B.
222) Ap. 19, Tonalá, Chis – Conc: T. Ibarra C.
223) Km. 521, Carretera México-Guadalajara, Jiquilpan, Mich – Conc: Ma. G. Laris de Guerrero O.
224) 5 de Febrero s/n, Cd. Obregón, Son – Gte: E. Manzanilla.
226) 16 de Septiembre 188 Ote. altos, Cd. Juárez, Chih – Gte: E. Parra.
227) Av. Ojinaga y Calle la, Cd. Madera, Chih – Gte: F. Hurtado A.
228) Domicilio Conocido, San Francisco del Rincón, Gto – Conc: J. Rodríguez R.
229) 22 de Diciembre y Benito Juárez, Guamuchil, Sin – Conc: Fco. B. Meza.
230a-c) Calle Belli 229, Martínez de la Torre, Ver – Gte: P. Manterola R; Gte(230b): D. Arrazola B.
232) Universidad de Chihuahua, Domicilio Conocido, Chihuahua, Chih – Dir: A. Varona T.
234) Calle 5a y Av. Panamericana 304, Agua Prieta, Son – Conc: J. Rodríguez.
235ab) Km. 2 Carretera Matamoros-Victoria, Matamoros, Tams – Gte. Gral: V.M. Salinas G.
236) Calle 50-410, Tizimín, Yuc – Gte: A. Iglesias V. **N:** 1245.
237) Balún Canán 68, Comitán, Chis – Gte: C.M. Amador P.
238) Av. Allende 3, Cd. Jiménez, Chih – Gte: G. López B.
239) Domicilio Conocido, Huejutla, Hgo – Conc: J. Pintos M.
240) Norte 1110, Nueva Italia, Mich – Conc: S.E. Godoy C.
242) Finca Los Angeles, Zamora 1625, Tuxtepec, Oax – Gte: R. Campos P.

243) Hidalgo 229 Norte, Monclova, Coah – Gte: J. Boone M.
244) Morelos y 5 de Mayo, Irapuato, Gto – Gte: A. Martínez V.
245) Rosales 284 Pte, Culiacán, Sin.
246a) 5a Av. y Calle 10, Col. Jardín, 20 de Noviembre – Conc: J.G. Guerra L. 246b) Fco. I. Madero y Muelle, Edif. Obregón, Desp. 112, both Tampico, Tams – Gte: Ing. A. Pereda L.
247) Altamirano 107 altos, Mexicali, BC – Conc: C. Tonella K.
248) Victoria 143 Ote, Cd. Acuña, Coah – Conc: O. González G.
249) Calle 4a Norte 605, Cd. Delicias, Chih – Gte: D. Adrián F.
250) Urdaneta 13, Acapulco, Gro – Conc: H. Troyo.
251) Tenoxtitlan y Allende 99, Los Mochis, Sin – Conc: L. Pérez G.
252) Ap. 65, Coatzacoalcos, Ver – Gte: Lic. O. Béjar G.
253) Av. Hidalgo 316, ler piso, Fresnillo, Zac – Conc: H. Gómez B.
254) Tiber 100, 9° piso, México 5, DF – Gte: G. Mier y Terán. Re. to Dir.Tec. Ing. F. Gómez B.
255) Hidalgo 342, El Grullo, Jal – Gte: A. Pérez G.
256) Av. Fco. I. Madero 26, Naco, Son – Gte: J.M. Franco M.
257) Mariano Bárcenas 483, Guadalajara, Jal – Conc: D. Flores P.
258a) Tres Guerras 44, 258b) Tres Guerras 122, both Celaya, Gto – Gte: E. Larrea V.
259) Ap. 2, Iguala, Gro – Conc: R. Campos M.
261) Juan Escutia 1647, Culiacán, Sin – Gte: G. Escalante.
262) Constitución 7, San Andrés Tuxtla, Ver – Gte: B. Ramos F.
263) Av. Resurgimiento 601, Campeche, Camp – Gte: Prof. A. Casanova B.
266) Calle 7 Pte. 102 altos, Puebla, Pue – Gte: F. Urbina.
269) Domicilio Conocido, Salvatierra, Gto – Gte: V. Ariaga C.
271) Lerdo 610, Villahermosa, Tab – Gte: Lic. E. Costilla G.
273) Km. 1 Carretera a Tecomán, Cerro de Ortega, Tecomán, Col – Conc: D. Escamilla M.
276) Blvd. Adolfo López Mateos 232 Ote, León, Gto – Gte: J. Rubio.
278a) Edif. La Pagoda, Prol. Juárez Ote, Cd. Mante, Tams – Conc: J. Cárdenas G.
278b) Matamoros 19 y 20 No. 303, Limón, Tams – Conc: E. Cárdenas G.
279) Matamoros 214 Ote. 750, Reynosa, Tams – Gte: F. Garca Peña.
280) Garizurieta 25, Tuxpam, Ver – Conc: E.F. de Almazán.
282) Ap. 190, Hidalgo del Parral, Chih – Gte: D. Salayandia.
283) Finca El Cerrito, Tamazula, Jal – Gte: R. Michel O.
284) Portal Hidalgo 213, Morelia, Mich – Conc: T. Ponce.
285) Ap. 49, Acaponeta, Nay – Gte: P. Aguiar V.
286) Independencia y Macedonia Alcalá, Oaxaca, Oax.
287) Yucatan 36 Pte, Hermosillo, Son – Gte: M. Torres Rivera.
288) Zaragoza 100 Pte, Santa Ana, Son – Gte: A. Marín C.
289) Domicilio Conocido, Mérida, Yuc.
290) Juan Terraza 402 Sur, Torreón, Coah – Conc: A. Rodríguez M.
291) 15 de Septiembre Nte. 426, Guadalajara, Jal – Dir: D. Martinez M.
293) Blvd. Rosales 201 Nte. esq. con Aquiles Serdán, Los Mochis, Sin – Dir: F. Pérez A.
295ab) Ap. 200, Nuevo Laredo, Tams – Conc: D. Ruiz V.
296) Rovirosa y Blvd. Salinas s/n, Tijuana, BC – Gte: G. López M.
297) Plaza Juárez 103, Pachuca, Hgo – Gte: L. Soto V.
298) 5 de Mayo Ote. 110, Monterrey, NL – Gte: J. Luís Alcántara. **N:** on the hour.
299) Av. I Sur 114, Tehuacán, Pue – Gte: F. Sanchez.
300) Hidalgo y Juárez, Cd. Victoria, Tams – Gte: E. Cárdenas G.
301) Edif. Cardenas Galván, Av. Cuauhtemuc y 12a, Matamoros, Tams – Gte: J. Cardenas G.
302) Prol. Vázquez Gómez 1, Acayucan, Ver – Conc: L. Escamilla M.
304) Ap. 52, Iguala, Gro – Gte: I.N. González R.
305) Galeana 1, Ixtepec, Oax – Gte: H. López L.
307) Veracruz 230 Sur, Cd. Obregón, Son – Gte: F. Garcia.
308) Ap. 13, Cd. Miguel Alemán, Tams – Sub Gte: D.O. Villarreal G.
309) Ap. 279, Villa Constitución, BC Sur – Gte: G. Espinosa A.
313) Ap. 287, Ensenada, BC – Gte: G. Reyes Jiménez.
317) Dolores 17, 5° piso, México, DF – Conc: R. García V.
318) Constitución 165, Sahuayo, Mich – Conc: A. Barragán D.
319ab) Km. 560, Carretera México-Laredo, Cd. Mante, Tams – Conc: R. López M.
320) Brecha 82 y la, Villahermoso, Tams – Gte: V.M. Sabinas.
321) Juárez 56-B, Minatitlán, Ver – Gte: R. López M.
322) Ap. 18, Orizaba, Ver – Gte: E. Hernández.
323ab) Av. Unión y Michoacán, Poza Rica, Ver – Gte: J. Vázquez G.
325) Av. 16 de Septiembre y Progreso, Edif. Ysela, Cd. Juárez, Chih – Gte: J. Montero M.
326) Ap. 50, Zitáeuaro, Mich – Gte: P. Estebán P.
327) Ap. 456, San Luís Potosí, SLP – Gte: C. Martinez B.
328) Niños Héroes 219, Cd. Obregón, Son – Gte: H. Eufracio V.
329ab) Ap. 1470, Tijuana, BC – Gte: E. Ruíz V.
331) Av. Primera Nte. 303, Cd. Delicias, Chih.
333) Constitución 62 Ote, Mazatlán, Sin – Conc: P. Xibille Partida.
334) Km. 1 Camino a Reynosa, Cd. Miguel Alemán, Tams – Dir: G. Gómez P.
336) Ap. 91, Cd. Frontera, Coah – Conc: J.F. Elizondo V.
337) Bermeja 2, Taxco, Gro – Gte: B. García A.
340) Granja el Brillante, Ameca, Jal – Conc: S. López C.
341) Ap. 68, Zamora, Mich – Gte: M.A. Sánchez G.
342) Km. 219.1 Carretera Panamericana, Querétaro, Que – Conc: M.L. Avila V.
343) Morelos 4, Matehuala, SLP – Gte: P. Boone M.
344) 15 Pte. 125, Guaymas, Son – Gte: J. Refugio O.
348) Ap. 333, San Luís Río Colorado, Son – Conc: Fsco. Encinas A.
349) Escobar 33, Huimanguillo, Tab – Gte: C.Z. Diaz R.
350) Ap. 60, Silao, Gto – Gte: J. Sánchez R.
351) Ap. 23, San Juan de los Lagos, Jal – Gte: I. Alvarado R.
353) Blvd. Agua Caliente 2798, Tijuana, BC – Gte: Lic. M.E. Mayans.
355) Km. 1 Carretera a Carmen, Champotón, Cam – Conc: M.H. Rodríguez E.
357) Paseo de la Reforma 322, México, DF – Gte: R. Marín y Kall. Re. to Fred Clark, Operations Mgr.
358) Tres Guerras 23, Irapuato, Gto.
359) Lerdo Pte. 197, Tepic, Nay.
361) Galeana 130 Pte. altos, Cd. Acuña, Coah – Gte: R. Valadez M.
363) A. Obregón 273-03, México 7, DF – Conc: F. Díaz A.
364) Km. 273, Carretera México-Acapulco, Chilpancingo, Gro – Gte: H. Castorena N.
365) Plaza Constitución y Manuel F. Soto, Tulancingo, Hgo – Gte: J. Hernández G.
366) Ap. 40, Zamora, Mich – Gte: J. Martínez G.
367) Edif. Matamoros, Combate D1, Hermosillo, Son – Dir. Gral: Ing. C.V. Rodríguez.
369) Calle 4a Nte. 605, Meoqui, Chih – Gte: A. Fournier.
371) Río Tíber 100, 9° piso, México, DF – Conc: Sucesión de Daniel Morales Blumenkron.
372) Hidalgo 301-B, Misantla, Ver – Gte: H. Avila.
374) Guerrero y Ocampo 450, Cd. Acuña, Coah – Conc: E. Treviño G.
376) Ap. 965, Los Mochis, Sin – Gte: O. Pérez E.
377) Ap. 10, Tepatitlan, Jal – Gte: J.I. Alvarado R.
378) Ap. 20-620, México 20, DF – Dir. Gral: Carlos F. Brunet, Re. to Dir.Gral. Técnico: Ing. M. Cerrillo L.R. México, Ap. 20620, México, DF. **D.Prgr:** 1255-1605, 2255-0405 (Sun 0505). **N** 0000. **Mbg:** Mon-Fri 1430-1530, 0200-0300. **N.** From the Presidential Palace 0350. External Sce's at 1325 1530 and 2325-0330 on 5985/9705/15385kHz.
379) Dirección General de Perfeccionamiento del Magisterio, Pres. Mazaryk 526, México, DF. Re. to Jefe de la Oficina: Prof. F. Delgado Casillas. **F.Pl:** evening programs.

MONTSERRAT

L.T: GMT–4h – **Pr.L:** English.

RADIO MONTSERRAT (Gov.)

ADDR: P.O. Box 51, Plymouth, Montserrat. **Te:** 2451. **Cable:** Radmon. **L.P:** St.Mgr: R.W. White.
STATION: 885kHz 1kW–**HOME SCE:** 1000(Sun 1300)-0200.
ANN: "This is ZJB, R. Montserrat (The Champion)".

RADIO ANTILLES (Priv, Comm.)

ADDR: P.O. Box 85, Montserrat, West Indies. **Te:** 2755. **Cable:** ARC – **L.P:** Chmn: W. Steigner, Man.Dir: Dr. H. Fellhauer. Gen.Mgr: K. Knaack. Dir.Tec: K.H. Ramota.
STATIONS: 930kHz 200kW – 740kHz 25kW.
HOME SCE: English 0930-0200 on 930kHz; **French** 0930-0115 on 740kHz; **Spanish** 0200-0500 on 930kHz.
N: On the h in all 3 prgrs.
ANN: E: "This is R. Antilles". F: "Ici R. Antilles". Sp: "Aqui R. Antillas"– **INT-SIG:** Carillon (two notes)+"This is our Island in the Sun" – **V.** by letter with coverage map.

BBC CARIBBEAN RELAY (Montserrat)

1×50kW and 1×15kW SW-trs shared by BBC and Deutsche Welle for relay of services to the Western Hemisphere: 6040, 9600, 11790kHz to be used.

DEUTSCHE WELLE MONTSERRAT

(trs shared with BBC)

kHz	kW	kHz	kW	kHz	kW	kHz	kW
5995	50	9545	15	9690	15	11970	15
6145	50	9590	15	9760	15		

For prgr. details see D. Welle, Germany (st. listed as Antigua).

NETHERLANDS ANTILLES

L.T: GMT–4h – **Pr.L:** Papiamento, Dutch, English – **E.C:** a/c 50+60, 127/220V (yes).

STATIONS: Mediumwaves

	Call	kHz	kW	Name and location
1)	—	800	500	TWR, Bonaire
2)	PJC-2	850	1	R. Curom, Willemstad
3)	PJA-6	960	10	R Victoria, Oranjestad
4)	PJC-7	1010	1	R. Hoyer, Willemstad
5)	PJL-3	1230	0.25	R. Caribe, Willemstad
6)	PJA-8	1270	1.25	R. Antiliana, St. Nicolaas
7)	PJD-2	1300	1	R. Sint Maarten, Philipsburg
8)	PJA-10	1325	1	Voice of Aruba, Oranjestad
9)	PJB-2	1400	1	Voice of Bonaire, Bonaire
10)	PJA-5	1440	1	R. Kelkboom, Oranjestad
11)	PJF-1	1445	1	Voice of Saba, Bottom
4)	PJC-9	1500	1	R. Hoyer, Willemstad
5)	—	1540	1	R. Caribe, Willemstad

FM: 4) 105.3MHz.

Addresses and other information
St's 1), 3) Rlg – others commercial.

1) See separate listing (Trans World Radio).
2) P.O. Box 31, Willemstad, Curaçao. **Te:** 13939 – Daily 1000-0400 in Papiamento (80%). **Int-Sig:** Part of the Curom-march, played by a big band. **V.** by letter. Rp.
3) P.O. Box 410, Aruba. **Te:** 7090. **Cable:** Team. (Studios in Aruba & Curaçao) – **L.P:** Mgr: Rev. P.J. Pietsch Jr. Chief Eng: R.J. Catteau – 1100(Sun 1200)-0100. **Schedule:** Entire day is divided into segments of Papiamento, English, Dutch and Spanish.
N. (W only): **English:** 1130, 1630, 2230. **Papiamento:** 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900. **Dutch:** 2215. **Spanish:** 2100, 2200. **V.** by QSL-card. Rp. **FI:** By comm. and adv. and freewill offerings.
4) Julianaplein 21, Willemstad. **Te:** 11673. **Cable:** Radioyer – **L.P:** Dir.Gen: H.E. Hoyer – W 0930-0430, Sun 1230-0330 Spanish/Papiamento on 1010kHz; Dutch/English on 1500kHz; Spanish/Papiamento/Dutch/English on 1400kHz: W 1130-1830, 2230-0230, Sun 1430-1730, 2230-0230. **V.** by QSL-card.
5) Nieuwestraat 22B, Willemstad. **Te:** 12801. **Cable:** R. Caribe – **L.P:** Dir.Gen: C.R. Heilegger. Dir.Tec: G.A. Heilegger – 1000(Sun 1200)-0400.
W: Papiamento 1000-1700, 1900-2200, 0100-0400. **N:** 1615-1700 – **Spanish:** 1700-1900, 2200-0100. **N:** 1700, 1800(VOA), 2200, 0015.
Sun: English (rlg. prgr's): 1200-1400, 2200-2300 – **Papiamento:** 1400-1700, 1830-2200, 2300-0400 – **Spanish:** 1700-1830. **N:** 1815. **V.** by letter. Rec.acc.
6) Bernardstraat 61, St. Nicolaas. **Te:** 5602 – **L.P:** Gen.Mgr: H.E.A. Booy. Dir. of Tec.Sec: E.J. Prins – Sun-Fri 0930-0500, Sat 0930-0800. **N(W): English** 1040, 1140, 1440, 1635, 1700. **Papiamento:** 1100, 1200, 1330, 1650, 1730, 2130, 2300. **V.** by letter. Rec.acc.
7) P.O. Box 366, Philipsburg – Gen.Mgr: L. Stein. St.Mgr: Vance James Jr – W 1000-0300, Sun 1400-2400. **N:** 1100, 1630, 2300.
8) P.O. Box 219, Oranjestad – **L.P:** Dir: A.M. Arenda Jr.
In Dutch, English, Spanish: On 1325kHz: 1000-0500(Sat 0700); Sun 1100-0500. On **FM:** 1030-0300(Sun 1400-2400). **V.** by QSL-card or letter.
9) See R. Hoyer – W 1130-1830, 2230-0230; Sun 1430-1730, 2230-0230.
10) P.O. Box 146, Oranjestad. **Cable:** Kelkboom. **Te:** 1899 – **L.P:** Mgr: Carlos A. Kelkboom. Chief Eng: H.J.M. Kelkboom. Dir.Prgrs: E.A.M. Kelkboom – 1100(Sun 1400)-0200 – **Papiamento: N:** 1130, 1230, 1400, 1500, 1615, 1645, 2030, 2200 – **Spanish:** Tues, Sat 0015-0045 – **Dutch:** Sun 1430-1500, 1630-1700, 2000-2030, 2345-2400; Tues 1830-1900; Wed 0115-0145. **V.** by QSL-card. Rp.
11) P.O. Box 1, Bottom.

TRANS WORLD RADIO
(Cultural, Educational, Religious)

ADDR: Trans World Radio, Bonaire, Netherlands Antilles. **Te:** 8800. **Cable:** VOTAN.
L.P: Pres: Dr. Paul E. Freed. Field Dir: Thomas J. Lowell. Dir. of Prgr's: Carl D. Björkman. Dir.Tec: Don Beans, Brian Moyer. Head English Sce: Julius Schipper. Head Portuguese Sce: Israel de Lima. Head Spanish Sce: Samuel Montoya.

STATIONS (G.C: 68.17W/12.09N): 800kHz 500kW.
Shortwaves: 1×50kW and 1×250kW tr's.

kHz	kHz	kHz	kHz	kHz	kHz	kHz
6045	9535	9755	11800	11840	15255	15345
6110	9570	9760	11815	11895	15275	15355
6190	9685	11790	11830	11925	15320	15415

D.PRGRS. On 800kHz: 0030-0115 Portuguese; 0115-0230 Spanish; 0230-0505 English; 0505-0545 Spanish; 0740-0900 Portuguese; 0900-1115 Spanish; 1115-1245(Sat 1320, Sun 1420) English; 2000-2130(Sun) English; 2145(Sun 2130)-2200 Dutch(Sat/Sun/Mon); 2200-2215 French; 2215-2300 Spanish.
N: Spanish 0158, 0535, 0930, 2215. **English** 0259, 0500, 1130, 1158, 1230(Mon-Fri), 1315(Sat), 1415(Sun), 2135 (Mon), 2150(Fri). **Portuguese** 0045(Thurs), 0830. **Norwegian** 2130(Sat).

Shortwave Schedule: I=So. America; II=No. America; III=Ce. America; IV=Far East; V=Europe/Mid. East; A=November-February; B=March-April; C=May-August; D=September-October; *=tentative schedule.

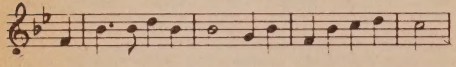
LANGUAGES	Area	A kHz	B* kHz	C* kHz	D* kHz
Arabic					
0445-0500a	V	9760	9760	9760	9760
Armenian					
0445-0500b	V	9760	9760	9760	9760
Czech					
0430-0445c	V	6190	6190	6190	6190
English					
0030-0130	IV	**11925**	**11925**	**11925**	**11925**
1100-1245	II	11815	11815	11815	11815
1230-1320(Sat)	II	15255	15255	15255	15255
1230-1420(Sun)	II	15255	15255	15255	15255
French					
2200-2215(Sun-Fri)	V	9575	11830	11830	15275

German	Area	A kHz	B° kHz	C° kHz	D° kHz
0115-0140	I	15345	15345	15345	15345
1000-1030	I	**11895**	**11895**	**11895**	**11895**
1000-1030	I	9570	9570	9570	9570
2330-2355	I	15345	15345	15345	15345
Hungarian					
0430-0445	V	6190	6190	6190	6190
Norwegian					
2140-2200	V	**15275**	**15275**	**15275**	**15275**
2140-2200	I	15320	15320	15320	15320
2140-2215(Sat)	V	**15275**	**15275**	**15275**	**15275**
Polish					
0335-0350(Thurs)	V	6190	6190	6190	6190
Portuguese					
0025-0115	I	15345	15345	15345	15345
0740-0930	I	9570	9570	9570	9570
2225-2330	I	15345	15345	15345	15345
2300-2330	I	11800	11800	11800	11800
Romanian					
0335-0350(Fri, Sat)	V	6190	6190	6190	6190
Russian					
0350-0430	V	6190	6190	6190	6190
2335-0015	I	15415	15415	15415	15415
Serbo-Croat					
0430-0445(Sun, Tues)	V	6190	6190	6190	6190
Spanish					
0140-0215	I	15345	15345	15345	15345
0140-0215	I	11790	11790	11790	11790
0215-0330	III	11790	11790	11790	11790
0930-1000	I	9570	9570	9570	9570
1030-1115	I	9570	9570	9570	9570
2215-2300	I	11800	11800	11800	11800
2355-0025	I	15345	15345	15345	15345
Ukrainian					
0335-0350(Wed)	V	6190	6190	6190	6190

a) Tues/Thurs/Sat; b) Mon/Wed/Fri; c) Wed/Fri – freq's in bold=250kW.

N: English 0100, 1205(W), 1315(Sat), 1415(Sun); **Spanish** 0145, 0225, 0930, 2215; **Portuguese** 0045(Thurs), 0830, 2225, 2300;**Norwegian** 2145(exc. Wed, Sun); **DX-Prgr: "DX SPECIAL",** Thurs 0045 on 11925kHz, Sat 1205 on 11815kHz.

ANN: "This is the international sound of the Caribbean, Trans World Radio, Bonaire" – **INT-SIG:** "Stand up, Stand up for Jesus" played on trumpet.



V. by QSL-card Rp. preferred. IRC's replied by airmail, all other correspondence by surface mail. Re. in E. and Sp. no tapes – **PUB:** Prgr. schedule free – **FI:** Voluntary contributions from individuals, organisations, foundations, churches.

RADIO NEDERLAND RELAY STATION

Bonaire 2×300kW SW-trs (G.C: 68.19W/12.13N):

kHz	kHz	kHz	kHz	kHzz
6020	9630	11730	15320	17810
6165	9715	15190	15425	17830
9590	9770	15220	17775	21640

For prgr. details see R. Nederland, Holland.

NICARAGUA

L.T: GMT–6h – **Pr.L:** Spanish – **EC:** a/c 60/120V (main cities: yes).

DIRECCION NACIONAL DE LA RADIO Y TELEVISION

ADDR: Ap. 209, Managua. **Te:** 22935. **Cable:** Radnac.
L.P: Dir.Gen: A. Luna S.

STATIONS: All st's comm. exc. 5) (Gov.), 35 (Cultural), 13 (rel.).
Mediumwaves: Call YN---. °)=Shortwave.

	Call	kHz	kW	Name, location and h. of tr.
1)	OW	540	10	R. Corporación, Managua: 1100-0600
2)	S	555	2	R. Tic Tac, Chinandega: 1200-0500
3)	AEI	580	10	R. Monumental, Matagalpa: 1200-0400
4)	RD	590	10	R. Quinientos Noventa, Managua: 1200-0500
5)	M	°620	100	R. Dif. Nacional Managua: 1100-0600
6)	WW	650	1	R. Sport, Granada: 1200-0400
7)	AM	660	10	R. Mi Preferida, Managua: 24h
8)	DS	680	15	Unión Radio: 1100-0500
4)	SC	700	10	R. El Fabuloso Siete, Managua: 1200-0400
2)	G	730	1	R. Titania, Chinandega: 1200-0400
9)	X	750	50	Estación Equis, Managua: 24h
10)	CN	780	3	R. América, Managua: 1200-0500
11)	W2	790	1	R. Mundial, Matagalpa: 1100-0400
11)	W4	790	1	R. Mundial, Jinotepe: 1100-0400
7)	O	800	10	R. Amor, Managua: 1200-0500
12)	BS	810	2	R. Ondas Segovianas, Estelí: 1200-0400
13)	OL	°820	15	R. Ondas de Luz, Managua: 1130-2400
14)	MG	830	5	R. Pinares, Ocotal: 1200-0400
15)	AV	860	10	R. Continental, Managua: 1100-0600
16)	RE	880	5	R. Exito, Managua: 1100-0500
15)	RT	900	5	R. Tiempo, Managua: 1100-0500
11)	W	°920	10	R. Mundial, Managua: 1100-0600
17)	RM	950	3	R. Matagalpa, Matagalpa: 1100-0400
18)	LU	960	20	R. Managua, Managua: 1100-0600
19)	E	980	10	R. Hits, Managua: 1200-0500
20)	TS	1000	10	R. Mil, Managua: 1100-0600
11)	W3	1010	1	R. Mundial, Estelí: 1100-0600
21)	VOZ	1020	3	R. Reloj, Managua: 1100-0600
22)	CW	1030	10	R. Occidental, Chinandega: 1200-0400
23)	LL	1050	2	R. Masaya, Masaya: 1200-0500
24)	KW	1060	5	R. Cristal, Managua: 1200-0600
18)	RPS	1070	2	R. Granada, Granada: 100-0400
3)	RMA	1090	5	R. Musún, Matagalpa: 1200-0600
25)	Q	1100	3	R. Voz de la Victoria, Managua: 1100-0500
26)	P	1115	2	R. Circuito, León: 1100-0500
27)	RC	1130	10	R. Católica de Nicaragua, Managua: 1100-0600
15)	AV	1140	1	R. Continental, Matagalpa/Rivas/ Chichigalpa: 1100-0600
2)	H	1160	3	R. Cosigüina, Managua: 1200-0500
28)	UW	1170	0.3	R. Darío, León: 1200-0400
29)	ITP	1180	0.5	R. 11 de Julio, Managua: 1100-0400
30)	CX	1190	2	R. Santa Maria, Nandaime: 1200-0400
10)	CN	1230	1	R. Central, Chinandega: 1200-0400
15)	SV	1240	1	R. El Mundo, Managua: 1200-0500
31)	CC	1250	3	R. Rumbos, Rivas: 1100-0400
32)	ABC	1260	2	R. Gueguense, Managua: 1200-0500
33)	WX	1270	3	R. Atenas, León: 1200-0500
3)	OO	1290	3	R. Plaza, Matagalpa: 1200-0500
34)	KS	1310	3	R. San Cristobal, Chinandega: 1200-0400
35)	EL	°1320	0.5	R. Maravilla, Managua: 1200-0400
36)	BC	1330	1	R. Cima, Sto. Tomas, Chontales: 1200-0400
37)	RM	1350	2	R. Alma Latina, Estelí: 1200-0400
38)	GF	1360	1	R. Ondas del Sur, Carazo: 1100-0400
39)	JD	1370	1	R. Fronteras, Boaco: 1200-0400
40)		r1370		R. Universal, Pto. Cabezas
41)	RP	1390	2.5	R. Mar, Pto, Cabezas: 1200-0400
25)	MS	1410	0.3	R. Ondas Populares, León: 1200-0400
1)	OW	1440	1	R. Corporación, León: 1100-0600
14)	TP	1440	1	Tierra Pinolera, Ocotal: 1200-0400
42)	DN	1450	10	R. Vanguardia, Managua: 1200-0500

	Call	kHz	kW	Name, location and h. of tr.
43)	TJ	v1460	5	R. Ecos de las Brumas, Jinotega: 1200-0400
2)	AG	v1470	2	R. Cosigüina, Chinandega: 1200-0400
1)	PT	1500	0.5	R. Minuto, Managua: 1100-0500
44)	CZ	v1510	1	R. Progreso, León: 1200-0400
45)	AC	1560	5	Ondas del Xolotlán, Managua: 1100-0500
46)	Z	1570	0.5	R. Matiguàs, Matagalpa: 1200-0400
47)	AW	1590	1	R. Colinás, Jinotega: 1200-0400

Shortwaves: Call YN---. *)=inactive at present.

	Call	kHz	kW	Name, location and h. of tr.
5)	—	*5945	50	R. Dif. Nacional, Managua
48)	RG	5955	0.5	R. Zelaya, Bluefields: 1100-0400
35)	EA	6010	0.1	R. Eco, Managua: 1200-0400
49)	HC	6100	0.4	R. Hernández de Córdoba, Ocotal: 1100-0400
50)	CA	6120	1	R. Atlántico, Bluefields: 1100-0400
51)	AGC	9520	0.05	R. Bonanza, Mina Bonanza: 1100-0400
13)	OL	9640	2	R. Ondas del Luz, Managua: 1230-2400
5)		*11875	100	R. Dif. Nacional, Managua

Addresses and other information:
1) Ap. 24-42, Managua – Dir.Gen: Fabio Gadea M.
2) Chinandega – Dir: Manuel A. González S.
3) Matagalpa – Dir: Arnoldo Rios C.
4) Ciudad Jardín G-12, Managua.
5) Carretera Col. Villafontana, Frente Costado Norte Colegio Lasalle, Managua – Dir: Orlando Meza L.
6) Ap. 46, Granada – Dir: Manuel Arana V.
7) Ap. 660, Managua – Dir: Manuel Jirón C.
8) Ap. 4096, Managua – Dir.Gen: R. Arróliga S.
9) Ap. 1505, Managua – Mgr: Rafael O. Cano.
10) Ap. 221, Managua – Dir.Gen: German Nuncio C.
11) Las Brisas, Q-23, Managua – Mgr: M. Arana V.
12) Estelí – Dir: Juan M. Barrantes.
13) Ap. 607. Managua – Dir: E. Torres P.
14) Nueva Segovia, Ocotal – Dir: Fabio Gadea S.
15) Ap. 2766, Managua – Dir: Mariano Valle Q.
16) Ap. 5034, Managua – Dir: Manuel A. Gonzalez S.
17) Ap. 1, Granada – Dir: Roberto Portillo S.
18) Ap. 848, Managua – Dir: Luis Filipe H.
19) Ap. 11-48, Managua – Dir: Orlando Meza R.
20) Ap. 3511, Managua.
21) 11 Calle S.O. entre 5 y 9 Av. 1015, Managua – Dir: Francisco Rodriguez T.
22) Ap. 12, Chinandega – Dir: J.E. Castillo.
23) Masaya – Dir: L. Correa L.
24) 2da. Etapa Reparto Schik, Managua – Dir: R. Hijos.
25) Ap. 147, Managua – Dir: A. Solis H.
26) Ap. 64, León – Dir: Armando Icaza P.
27) Ap. 2188, Managua – Dir: P.B. Escharri A.
28) León – Dir: J. Toruño C.
29) Ap. 3338, Managua – Dir: Adolpho Boza P.
30) Nandaime, Granada – Dir: Marina Diaz O.
31) Rivas – Dir.Gen: José M. Cuadra R.
32) Ap. 1229, Managua – Dir: S. Cardenal A.
33) Ap. 51, León – Dir: Nestor Icaza I.
34) Ap. 59, Chinandega – Dir: A. de Gutierrez.
35) Ap. 3776, Managua – Dir: Eduardo Aragón T.
36) Santo Tomas, Chontales – Dir: E. de Barrantes.
37) Estelí – Dir: R. Rodríguez G.
38) Jinotepe, Carazo – Dir: Julio Hernández.
39) Somoto – Dir: T. Germán Alfaro.
41) Ap. 10, Pto. Cabezas – Dir: R. Pérez U.
42) Ap. 2050, Managua – Dir: Luis F. Hidalgo H.
43) Jinotega – Dir: Tirso Morales M.
44) Calle Ruben Dario, Leòn – Dir.Gen: Ramòn C. Zapata.
45) Km 10 1/2, Carretera Vieja a León, Managua.
46) Matiguás, Matagalpa – Dir: Luis A. Olivas M.
47) Jinotega – Mgr: Montiel y Herrera.
48) Ap. 72, Bluefields – Dir: R. Austin Gallop.
49) Nueva Segovia, Ocotal – Dir: N.A. Madrigal.
50) Bluefields – Dir: S. Sandoval de Mena.
51) Mina Bonanza, Zelaya – Dir: Adolfo Guzmán C.

PANAMA

L.T: GMT–5h – **Pr.L:** Spanish – **E.C:** a/c 60, 115/230V (yes).

DIRECCION TECNICA DE TELECOMUNICACIONES

ADDR: Ap. 1628, Panama 1. **Cable:** Dirgentel.

ASOCIACION PANAMENA DE RADIODIFUSION

ADDR: Ap. 7387, Panama.

STATIONS: C=Circuito.
Mediumwaves: Call: HO——. °) Shortwaves.

	Call	kHz	kW	Name and h. of tr.
1)	U23	540	10	R. Guadalupe
2)	N31	550	1	R. Aeropuerto, Panamá
3)	H2	560	1	Circuito RPC, Colón
3)	H4	580	1	Circuito RPC, David
3)	H3	590	1	Circuito RPC, Chitré
3)	HM	610	10	Circuito RPC, Panamá
4)	K	640	0.25	Cadena Panamena de Radiodif, Colón
1)	S22	650	10	R. Mía, Panamá: 1000-0600
3)	F33	660	1	Circuito RPC, Bocas del Toro
5)	LY	670	1	R. Hogar, Panamá: 1100-0400
6)	F32	680	0.5	R. Centenario, Puerto Armuelles
7)	M83	690	5	R. Veraguas, Santiago: 1100-0550
8)	B52	710	1	Ondas del Caribe, Bocas del Toro: 1000-0500
9)	B50	720	1	R. Republica, Chitré: 1000-0500
10)	R44	730	5	R. La Exitosa, Panamá: 24h
11)	XO	760	5	La Voz del Istmo, Panamá: 1030-0330
12)	L47	770	10	R. Libertad, Chitré: 24h
13)	B	780	3	R. Chiriqui, David: 1100-0400
14)	SCN	790	10	Southern Command Net, Ft. Clayton, Canal Zone: 24h
15)	G	810	2	R. Latina, Panamá: 1130-0300
16)	R56	825	1	R. Peninsula, Macaracas: 1000-0600
12)	L80	840	10	R. Libertad, Panamá: 24h
17)	L55	860	10	R. Reforma, Chitré: 1030-0430
18)	HO	870	1	R. Musical, Panamá
9)	B51	880	0.25	La Fabulosa de Colón, Colón
12)	L81	890	10	R. Guaymí, David: 24h
19)	HA	900	5	La Voz del Pueblo, Panamá: 1000-0400
12)	L84	910	1	La Voz del Tuira, La Palma
12)	L82	910	10	R. Urraca, Santiago de Veraguas
1)	S56	980	1	R. Mía, Los Santos
20)	X	940	1	R. TV-2, Panamá
21)	B33	950	1	R. Cultura, Concepción
3)	F	965	3	Onda Popular, Panamá 1100-0500
1)	S56	980	1	R. Mía, David
22)	R59	990	1	R. Impacto, Panamá: 1030-0300
23)	U44	1015	1	R. Reloj, Panamá: 24h
3)	F2	1020	1	Onda Popular, Colón
24)	U	°1025	2	La Voz del Baru, David
25)	S21	1035	1.5	R. Unión, Panamá: 1100-0400
26)	J2	1045	1	Ondas del Canajagua, Las Tablas: 24h
27)	HPM21	1060	3	Musical 76, Panamá: 1130-0500
28)	J23	1080	1	Radio Tic Tac, Panamá
12)	L82	1090	1	R. Libertad, Colón: 24h
29)	—	1100	5	R. Mil, Panamá
1)	M21	1120	1	R. Continente, Panamá: 1030-0500
3)	F47	1125	1	Circuito RPC, Patino Darien
30)	—	1130	1	R. Provincias, Chitré: 1100-0300
31)	B49	1140	1	R. Juvenil, Panamá: 24h
32)	C20	1180	10	Ondas Chiricanas, David: 0955-0300
33)	E91	1210	4	R. Diez, Panamá: 1100-0600
34)	K36	1220	1	R. Poderosa, Aguadulce: 1100-0500
35)	M56	1240	1	R. Reloj de Chiriqui, David: 1000-0500
36)	—	v1245	—	Ondas Tropicales, Chitré (nom.1200)
10)	—	1250	1	R.B.B. Panamá
37)	L60	1260	1	R. Exito, Santiago

	Call	kHz	kW	Name and h. of tr.
28)	J22	1270	0.5	R. Femenina, Panamá: 1100-0500
38)	U80	1280	0.25	La Voz del Vigia, Aguadulce
1)	S23	1290	1	R. Guadalupe, "La Pantera", Panamá: 1100-0400
39)	N26	1340	5	R. Cristal, David: 1100-0500
40)	O38	1370	1	R. Colosal, David: 1100-0500
27)	J60	°1380	1	La Voz de Panamá, Panamá: 1130-0500
41)	L	1390	1	R. Atlantico, Colón
42)	HS	1400	1	Ondas Centrales, Santiago de Veraguas
43)	RS	1410	1	Super Radio, Panamá
14)	SCN	1420	1	Southern Command Net: 24h
44)	D42	1460	0.25	La Voz de Almirante: 1300-1400
28)	R43	1490	3	R. Exito, Chorrera
45)	A95	1510	5	R. Equis, Panamá: 24h
46)	R20	1520	1	R. Coclé, Penonome
47)	E28	1540	1	R. Reloj, Panamá
48)	E35	1570	0.1	R. Once, Colón

Shortwaves: °) inactive.

24)	HOU31	°6045	0.5	La Voz del Baru, David
27)	HPJ50	9605	0.5	La Voz de Panamá, Panamá: 1130-1400, 1800-0400

Addresses and other information

1) Ap. 5117, Panamá 5 – Dir.Gen: R. Pereira.
2) Ap. 7325, Panamá 5.
3) Ap. 1795, Panamá – St.Mgr: J. de la Guardia.
4) Ap. 33, Colón.
5) Ap. 102, Panamá 9A – Dir.Gen: C.A. Arias I.
6) Ap. 3, Puerto Armuelles.
7) Ap. 48, Santiago(Veraguas) – Mgr: M.G. Jimenez S.
8) Finca 13, Enpalme, Bocas del Toro – Dir: M.A. Mejía.
9) Ap. 1198, Chitré – Dir: R.E. Garcia.
10) Ap. 7462 Panamá 5 – Dir: A. de Icaza.
11) Ap. 3269, Panamá 3 – Dir: R.A. Lay.
12) Ap. 4950, Panamá 5 – Dir: L.D. Caballero A.
13) Ap. 43, David – Dir: M. Ramón Guerra.
14) (AFRTS) Drawer 919, Bldg. 209, Ft. Clayton, Canal Zone – Dir: H.M. Fry.
15) Ap. 1121, Panamá.
16) Ap. 826, Panamá 1 – Mgr: R. Correa.
17) Ap. 1201, Chitré – Mgr: P. Solis V.
18) Ap. 10577, Panamá 4.
19) Ap. 1045, Panamá 1 – Mgr: R. Lombardo A.
20) Transístmica, Panamá.
21) Ap.. 249, Concepción.
22) Ap. 1373, Panamá 1 – Dir.Gen: A. Quiros G.
23) Ap. 5124, Panamá 5.
24) Ap. 160, David – Mgr: R.D. Samudio.
25) Ap. 8175, Panamá 7 – Dir.Gen: R. Landero P.
26) Ap. 10, Las Tablas.
27) Ap. 867, Panamá 1 – Dir: G. Diaz I.
28) Ap. 1819, Panamá 1.
29) Ap. 1100, Panamá 1.
30) Ap. 1174, Chitré – Dir.Gen: G.A. Reyes.
31) Ap. 6377, Panamá 5.
32) Ap. 172, David – Dir.Gen: E. Calvo.
33) Ap. 6410, Panamá 5.
34) Ap. 58, Aguadulce, Coclé – Dir.Gen: R. Chiara.
35) Ap. 328, David – Dir.Gen: F. Moncada I.
36) Ap. 1591, Chitré.
39) Ap. 540, David, Chiriqui – Pres: D. Morhaim R.
40) Ap. 360, David – Dir.Gen: A.D. Abadia.
41) Ap. 44, Colón.
42) Santiago de Veraguas – Dir: H. Santacoloma.
43) Ap. 946, Panamá 1.
44) Calle 6a y Av. N. Almirante, Bocas del Toro – Dirs: N.O. Dosman, A. Bodkin.
45) Ap. 7671 Panamá 9 – Dir: C.E. Garcia M.
46) Ap. 81, Penonomé.
48) Ap. 506, Colón.

There is something missing at your friend's place . . .

You're right! The new edition of the WRTH!

PUERTO RICO

L.T: GMT–4h – **Pr.L:** Spanish, English.

BROADCASTERS ASSOCIATION OF PUERTO RICO

ADDR: Box Q, Hato Rey.

STATIONS: All st's comm. exc. 15), 39). Most st's broadcast in Spanish.

Locations: Hato Rey and Santurce are districts in San Juan.

	Call	kHz	kW	Name, location and h. of tr.
1)	WPAB	550	5/1	R. 550, Ponce: 0900-0400
2)	WKAQ	580	5	WKAQ-R. 58, San Juan: 24h
3)	WAEL	600	1d	R. 600, Mayaguez: 1000-0200
4)	WWBS	630	1d	Quality Bc. Corp, Santurce: 1000-0500(Fri, Sat 0700)
5)	WAPA	680	10	La Voz del Caribe, San Juan
6)	WKJB	710	1/0.5	Emisora WKJB, Mayaguez: 0915-0400
7)	WIAC	740	10d	R. Internacional, San Juan: 0859-0400(Fri, Sat 0600)
8)	WORA	760	5d	R. Americas, Mayaguez: 0900-0400
9)	WKVM	810	25d	American Colonial Bc, San Juan: 0900-0500
10)	WXEW	840	0.25	Yabucoa: Daytime
11)	WABA	850	0.5	R. Waba, Aguadilla: 24h
12)	WHOA	870	5d	R. Capital, Hato Rey: 0900-0402
13)	WPRP	910	5/0.5	R. Ponce, Ponce: 0900-0415
14)	WEKO	930	0.5d	R. Eco, Cabo Rojo
15)	WIPR	940	10d	La Emisora del Pueblo, Hato Rey: W 0930-0230, Sun 1130-0400
16)	WPRA	990	1	R. Mayaguez, Mayaguez: 1000-0300
17)	WOSO	1030	10d	
18)	WCGB	1050	1	R. Iniciativa, Juana Diaz: Daytime
19)	WMIA	1070	0.5	R. Arecibo: 0900-0400
20)	WLEY	1080	0.25	R. Ley, Cayey: 24h
21)	WRSG	1090	0.25	R. San German, San German: 0930(Sun 1000)-0400
22)	WVJP	1110	0.25	R. Caguas, Caguas: 0930-0300
23)	WQII	1140	10d	R. Once Q, Guaynabo: 24h
24)	WBQN	1160	1d	R. Borinquen, Barceloneta: 0930-0330
25)	WLEO	1170	0.25	R. Leo, Ponce: 24h
26)	WBMJ	1190	10/5d	R. Rock, San Juan: 24h
27)	WHOY	1210	1d	R. Hoy, Salinas: 1000-0300
28)	WNIK	1230	1/0.25	R. Unica, Arecibo: 24h
29)	WALO	1240	1/0.25	R. Oriental, Humacao: W 1000-0300, Sun 1100-0200
30)	WISO	1260	1	Emisora WISO, Ponce: 1000-0400
31)	WCMN	1280	5/1	R. Centro, Arecibo: 1100-0200
32)	WTIL	1300	1	R. WTIL, Mayaguez: 1000-0400
33)	WUNO	1320	5/1	R. Uno, Hato Rey: 24h
34)	WUNA	1340	0.25	R. Una, Aguadilla: 24h
35)	WEGA	1350	0.5d	R. Las Vegas, Vega Baja: 1000-0300
36)	WCHQ	1360	1/0.5d	R. Camuy, Camuy
37)	WIVV	1370	5/1	WIVV Missionary R.St. Vieques Isl: 0924-0315(Sun 0400)
38)	WISA	1390	1/0.5	R. Noroeste, Isabela: 0930-0300
39)	WVOZ	1400	1/0.25	R. Voz, Carolina: 24h
40)	WEUC	1420	1	R. Univ. Catolica, Ponce: 24h
41)	WNEL	1430	5/0.5	R. Tiempo, Caguas: 0745-0400
42)	WCPR	1450	1/0.25	R. Coamo, Coamo
43)	WCID	1460	0.5d	R. Cid, Juncos
44)	WFBA	1460	0.5	R. Pepino, San Sebastian: 0900-0400
45)	WMDD	1480	5	La Voz del Oriente (R. El Conquistador), Fajardo: 1000-0400(Sun 0200)
46)	WZBS	1490	1/0.25	R. Senorial, Ponce
47)	WMNT	1500	1/0.25	R. Atenas, Manati
48)	WRAI	1520	10d	R. Quince Veinte, Hato Rey: 24h
49)	WUPR	1530	1/0.25	R. U-P-R, Utuado: 1000-0230(Sat 0300, Sun 0245)
50)	WKFE	1550	0.25	R. Cafe, Yauco: 24h
51)	WRSJ	1560	5/0.25	R. San Juan, Bayamon: 0855-0500
52)		1570		Penuelas: Daytime
53)	WXRF	1590	1	R. Guayama: 1000-0200
54)	WLUZ	1600	1d	R. Luz, Santurce

Addresses and other information:
Abbreviations: See USA comm. st's.

1) Box 4469, Ponce 00731 – G.M: A. Gimenez-Porrata. C.E: A. Gimenez Jr – MoR.
2) Box 4668, San Juan 00936 – G.M: R. Royo Jr. P.D: J.J. Ortiz. C.E: J. Arzuaga – Top 40.
3) AE, Mayaguez 00708 – Pres. & G.M: M. Pirallo.
4) Box 9986, Santurce 00908 – G.M: A.D. Herger. P.D: P. Ruiz López. C.E: E. Reid – MoR (Partial simulcast with 8) and 13) "La gran Cadena").
5) Box 4563, San Juan 00905 – G.M: R. Owen. P.D: F. Aranzamendi Jr. C.E: M. Triay – Cont.
6) Box 1293, Mayaguez 00708 – G.M: J.A. Bechara Jr. P.D: I. López. C.E: G. Bonet M – Top 40.
7) Box 4504, San Juan 00905 – Mgr: Elsa Fernández. P.D: W. López. C.E: A. Carrión.
8) Box 43, Mayaguez 00708 – Pres: A. Ramírez de Arellano. Mgr: H. Jordan. C.E: N. Non – Top 40.
9) Box 4189, San Juan 00907 – G.M: R. Pérez Perry Jr. P.D: G. Rivera. C.E: J.A. Puras.
10) Yabucoa 00767.
11) Box 188, Aguadilla 00603 – G.M: P.E. Hernández – P.D: A. Hernández. C.E: J. Hernández Soto – Cont.
12) Box V, Hato Rey 00919 – Pres. & G.M: C. Mendez. Mgr: V.J. Polley. C.E: W. Blanco P – MoR, Cont. **English.**
13) Box 430, Ponce 00731 – S.M: M.A. Borrero. P.D: A. Figueroa. C.E: A. Santos – MoR.
14) Box 1075, Arecibo 00612.
15) Dept. of Education of P.R, Box 909, Hato Rey 00919 – G.M: J.A. Garcia. P.D: F. Rodríguez Baez. C.E: M. Collazo.
16) Box 1869, Mayaguez 00708 – G.M: E.C. de Tamayo. P.D: W. Padilla. C.E: G.A. Bonet.
17) Box 13573, Santurce 00908 – MoR.
18) Box 248, Juana Díaz 00665 – Mgr: M. Rivera. C.E: L.L. Trumbower – MoR, rlg.
19) Box 1055, Arecibo 00612 – G.M: E. Rodriguez-Velez. P.D: M. Melendez de la Rosa. C.E: F. Santiago.
20) Box 1186, Cayey 00633 – G.M: C. Cordero. C.E: J.H. Conesa.
21) Box 154, San German 00753 – Mgr: J.M. Miranda. S.M: Ada Acosta. C.E: S. Pérez.
22) Box 207, Caguas 00625 – G.M: H. Pereira. P.D: M. Rivera Ortiz. C.E: J.R. Gómez.
23) Box 101, Guaynabo 00657 – G.M: D.F. Gleason. C.E: G. Olivera – Top 40.
24) Box 11395, Barceloneta 00617 – G.M: L.R. Rivera. P.D: R. Rodríguez. C.E: L. Rivera. **F.Pl:** 1kW.
25) Box 38 Playa, Ponce 00731 – G.M: J.H. Conesa Jr. P.D: R. Vélez. C.E: G. Santiago – Cont.
26) Penthouse, Borinquen Hotel, San Juan 00907 – Pres: J.L. Saphier. G.M: R. Lee Bennett. C.E: R. Rivas – Cont.
27) Box 427, Salinas 00751 – G.M: W. Morales. Pres. & C.E: J. Ortiz – **F.Pl:** 5kW.
28) Box 908, Arecibo 00613 – G.M: F. Velázguez. P.D: A.M. Natal. C.E: M.R. Thomas.
29) Box C, Humacao 00661 – G.M: E. Archilla-Roig. S.M. & C.E: E. Archilla D. P.D: L.A. Gandara.
30) Box 2023, Ponce 00731 – Mgr: L.E. Freyre. P.D: R. Mayroal. C.E: M. Delgado.
31) Box 436, Arecibo 00612 – G.M: B. Mitchell. P.D: R. González. C.E: C. Arroyo – Progressive.
32) Box 1360, Mayaguez 00708 – Pres. & G.M: G. Mamery. P.D: R. Colón Diaz. C.E: A. Zapata.
33) Box Q, Hato Rey 00919 – G.M: V.P.M. Meyer. P.D: L.A. Cosme. C.E: V. Montanez – Top 40.
34) Box 809, Aguadilla 00603 – G.M: F. Arredondo. P.D: O.V. Tirado. C.E: R.T. Cushing.
35) Box 1488, Vega Baja 00763 – Mgr: A.M. Ciordia Jr. C.A. Santiago R. C.E: J. Gómez.
36) Box 458, Camuy 00627 – Pres: Dr. J. Rodriguez García. C.E: R.T. Cushing – Cont.
37) Box A, San Juan 00936 (Studios: Box 338, Vieques Isl. 00765) – G.M: D.D. Luttrell. P.D: Miss J. Luttrell. C.E: J. Hill. Prgr: **Spanish** W 0145-0315, otherwise **English.**
38) Box W, Isabela 00662 – Pres: L.A. Mejia. C.E: R.T. Cushing.
39) Villa Fontana Park, Carolina 00630 – G.M: P. Roman-Collazo. C.E: J.J. Arzuaga Jr.
40) Sta. 6, Univ. of Puerto Rico, Ponce 00731 – G.M: E. Rosado. P.D: J.L. Ricart. C.E: C. Arroyo.
41) Box 487, Caguas 00625 – Pres. & C.E: J.M. Soto. G.M: Carmen Pagan. P.D: L.R. Leon – Top 40.
42) Box 316, Coamo 00640 – G.M. & C.E: J.D. Soler – Top 40.
43) Box WW, Juncos 00666 – G.M: R.A. Rodríguez. P.D: A. Llaldo. C.E: R. Martínez.
44) Box CC, San Sebastian 00755 – G.M: F. Bonnet Veléz. P.D: F. Bonnet. C.E: G. Bonet.
45) Box 948, Fajardo 00648 – G.M: R.J. Friedman. P.D: A.L. Vásquez. C.E: C. Soto P.
46) Box 4512, Ponce 00731 – G.M: Dr. H. Zayas Chardon. P.D: C.M. Torres. C.E: C. Arroyo.
47) Box 6, Manati 00701 – Mgr: P. Collazo Barbosa. C.E: J.M. Soto – MoR.
48) 74 Mayagüez St, Hato Rey 00917 – Pres: C.M. Pirallo L. P.D: D. White. C.E: R.A. Valdes – E.RR.
49) Box 868, Utuado 00761 – G.M: B. Martinez G. P.D: R.L. Segarra. C.E: R.A. Salva.
50) Box 324, Yauco 00768 – G.M: C. Cordero. S.M: J.L. Bermúdez. C.E: J.H. Conesa – MoR.
51) Box 1560, Bayamón 00619 – G.M. & C.E: A. Santiago. P.D: J.A. Cruz. C.E: J.M. Alvarado.
53) Box 600, Guyama 00654 – Pres: R. Fuster Jr. G.M. & P.D: G. Cordero Jr. C.E: G. Retske.
54) Box 9394, Santurce 00908 – G.M: H. Nígaglioní. P.D: T.G. Muníz. C.E: R. Rivas – MoR.

AFRTS (US Air Force)

STATIONS: 1) AHD 780kHz 0.05kW (Ramey Air Force Base, Aguadilla) – 2) ACE 1040kHz 0.05kW (Ft. Brooke, San Juan) – 3) AFCN 1200kHz 0.05kW (Roosevelt Roads).
ADDR: 1) 2) Box 432, APO New York 09503; 3) FPO New York 09503.

ST. KITTS

L.T: GMT–4h – **Pr.L:** English – **E.C:** a/c 50, 1110V.

RADIO ZIZ (Gov, Comm.)

ADDR: P.O. Box 331, Springfield, Basseterre, St. Kitts. **Te:** 2621. **Cable:** ZIZ.
L.P: Ag.Gen.Mgr: G. Caines. Dir.Tec: Z. Joseph.
STATION: ZIZ 555kHz 20kW.
HOME SCE. in English: 1000-0300.
ANN: "This is R. ZIZ, St. Kitts" – **V.** by letter.

RADIO PARADISE (Rlg.)

ADDR: P.O. Box 423, Basseterre.
L.P: Dir: R.A. Mayer. St.Mgr: Rev. R. Rogers.
STATION: 1265kHz 50kW.
HOME SCE. in English and Bilingual (French/English): 0900-0300 – **V.** by QSL-card.

ST. LUCIA

L.T: GMT–4h – **Pr.L:** English.

ST. LUCIA BROADCASTING CORPO.

ADDR: Government Buildings, Castries, St. Lucia. **Te:** 3959. **Cable:** Sunradio.
L.P: Chmn: W. King. Ag.Mgr. & Prgr.Dir: W. Hinkson. Technician: R.C. Carter.
STATION: Babonneau 660kHz 20kW.
HOME SCE. in English: 0925-0300. **N:** 1030, 1100*, 1200, 1300(CBC), 1600*, 1630, 1700, 1800*, 2000*, 2100, 2200, 2300*, 2345, 0200*. **N. in Patois:** Tues/Thurs/Fri 2215. *) World N. relayed from BBC.
ANN: "This is R. St. Lucia, the station of the Nation".

RADIO CARIBBEAN (Comm.)

ADDR: P.O. Box 121, Castries, St. Lucia. WI. **Te:** 2637. **Cable:** Caradio.
L.P: St.Mgr: D.V.G. Gardner. St.Eng: Winston Foster.
STATION: 840kHz 10kW.
HOME SCE. in English: 0915-0300. **N:** 1100* 1120(local), 1200, 1300*, 1400, 1500, 1600, 1700(local), 1800, 1900, 2000*, 2100, 2200(local), 2300*, 0000, 0200*. *)=BBC.

For further prgr. details refer to "Voice of St. Lucia" (local newspaper).
ANN: E: "This is R. Caribbean, St. Lucia, broadc. on a freq. of 840kHz in the mx band" – **V.** by letter. Rp.

ST. VINCENT

L.T: GMT–4h – **Pr.L:** English. – **E.C:** a/c 50, 110V.

RADIO ST. VINCENT (Gov.)

ADDR: P.O. Box 705, Kingstown, St. Vincent. **Te:** 61516. **Cable:** Broadcast.
L.P: Mgr: Claude Theobalds. Prgr. Organizer: Miss Jeanette Duncan. Technician: L. McKie.
STATION: Kingstown 705kHz 10kW.
HOME SCE. in English: 1030-1230, 1545-0100(Sat 0215). **N:** 1145, 1600, 1640, 1800, 2230, 2345 – **V.** by letter. Rec. acc.

TRINIDAD & TOBAGO

L.T: GMT–4h – **Pr.L:** English – **E.C:** a/c 60, 115/230V (yes).

NATIONAL BROADCASTING SCE (Gov.)

ADDR: P.O. Box 610, Port-of-Spain. **Te:** 62-32610 **Cable:** Voice.
L.P: Gen.Mgr/Chief Eng: F. Thompson. Prgr.Dir: E. Fung. Sales Mgr: Mrs. M. Borde.
STATION: 610kHz 10kW – **FM:** 100MHz 3kW (stereo).
HOME SCE. in English: 0925-0400. **N:** On the h (BBC-1800) – **Wrp:** On the half h.
ANN: "This is the NBS, The voice of Trinidad and Tobago" – **INT-SIG:** At sign-on: The tune "Yellow Bird, Choucoun Destiny" played on Guitar and Xylophone – **V.** by letter. Rp.

TRINIDAD BROADCASTING CO. (Comm.)

ADDR: Broadc. House, 11b Maraval Rd, Port of Spain. **Te:** 21151. **Cable:** Broadcast.
L.P: Gen.Mgr: P.E.M. Hesketh. Dir.Tec: E.R. McDowell. Dir. of Prgrs: H. Blackman.
STATIONS: 730kHz 20kW.
HOME SCE. in English: D 0930-0400.
N: 1000, 1030*, 1100, 1200*, 1300, 1400, 1505*, 1600, 1630*, 1700, 1800, 1900, 2000*, 2100, 2200, 2345*, 0115, 0145*, 0300–*) incl. Wrp.
For further prgr. details refer to "Trinidad Guardian" and "Trinidad Express".
ANN: "This is R. Trinidad, first with the news".
V. by letter. Rec. acc.
RADIO NINE/FIVE (FM-stereo)
95.1MHz 1kW: 1000-0400.

TURK & CAICOS ISLANDS (British)

L.T: GMT–5h – **Pr.L:** English.

RADIO TURKS AND CAICOS

ADDR: c/o Government Information Officer, Chief Secretary's Office, Grand Turk. **Te:** 2300.
L.P: St.Mgr: W. Grant.
STATION: VSI 1550kHz 1.5kW.
D.PRGRS: W 1700-1900, 2200-0300; Sun 1200-2200.
ANN: "This is R. Turks and Caicos".

VIRGIN ISLANDS (American)

L.T: GMT–4h – **Pr.L:** English.

RADIO STATION WSTA (Comm.)

ADDR: P.O. Box 489, Charlotte Amalie, St. Thomas 00801. **Te:** 774-1340. **Cable:** WSTA.
L.P: Gen.Mgr: B. Saul. Chief Eng: K. Neil.
STATION: 1340kHz 0.25kW – **HOME SCE:** 1000-0600.
ANN: "This is WSTA, 1340 on your dial in St. Thomas, Virgin Islands" – **V.** by letter. Rec. acc.

THOUSAND ISLANDS CORPORATION (Comm.)

ADDR: P.O. Box 5170, Charlotte Amalie, St. Thomas 00801. **Te:** (809)7741000. **Cable:** WVWI.
L.P: Gen.Mgr: R.E. Noble Jr. St.Mgr: L.A. Ricardo. Dir. of Prgrs: G. Franas.
STATION: WVWI 1000kHz 1kW.
HOME SCE. in English: 1000-0400. **N:** On the h.
ANN: "WVWI R. 1000, St. Thomas" – **V.** by letter.

VIRGIN ISLANDS BROADC. CORPO. (Comm.)

ADDR: Box 428, Christiansted, St. Croix 00820.
L.P: Gen.Mgr: Ruth J. Carpenter. Dir. of Prgrs: B. Thompson.
STATION: WSTX 970kHz 5/1kW.
D.PRGR: 1100-0600 – **V.** by letter.

HRH Inc., P.O. Box 310, Christiansted, St. Croix 00820.
STATION: WIVI-FM: 99.5MHz 4.9kW.
WVIS-FM, Box 1403, Frederiksted, St. Croix 00840.
STATION: 106.1MHz 5.8kW.
F.PL: Planned: Station WRRA, Frederiksted 1290kHz 0.5kW – **FM:** WIBS 97.5MHz 5kW Charlotte Amalie.

VIRGIN ISLANDS (British)

L.T: GMT–4h – **Pr.L:** English.

VIRGIN ISLANDS BROADC. Ltd (Comm.)

ADDR: Box 78, Roadtown, Tortola.
L.P: St.Mgr: L.N. Mills.
STATION: ZBV1 780kHz 10kW – **HOME SCE. in English:** 1000(Sun 1500)-0300. **N:** Hourly 1100-1600 and 2000-2400, also 1800, 0200 0400(Sat). Sun: 1600, 2000. **Local N:** 1130, 2230.
ANN: "This is R. St. ZBVI, the Virgin Isl. Broadc." – **V.** by letter.

A change of frequency for your local station – an increase in air-time. It might be useful for us to know.

"Listen to the world"

a new section, full of articles – is now incorporated in the WRTH – you get more value for money!

SOUTH AMERICA

ARGENTINA

L.T: GMT–3h – **Pr.L:** Spanish.

SECRETARIA DE ESTADO DE COMUNICACIONES

ADDR: Sarmiento 151, Buenos Aires. **Te:** 31-5031. **Cable:** Encotel.
L.P: Secr: Gral.Brrg. (RE) Alberto Vicente Nieto. Subsecr: Col. R. Edúardo Tito.

COMITE FEDERAL DE RADIODIFUSION (COMFER)

ADDR: Paseo Colón 315, piso 3°, 1063 Buenos Aires.
L.P: Contr: Capt. W.E. Adamoli.

RADIO NACIONAL

(Servicio Official de Radiodifusion-Gov.)
ADDR: Ayacucho 1556, Buenos Aires. **Te:** 84-2021.
L.P: Dir.Gen: Delio Octavio Longo. Dir. of tr's: V. Diaz. Dir. of Operations: M. Enrique Fentanes. Dir.Tec: L.W. Labate.
HOME SCE:
Mediumwaves: °=Shortwave.

	Call	kHz	kW	Name	h. of tr.
1)	LRA14	540	25/5	Santa Fé	24h
2)	LRA13	560	25/5	Bahia Blanca	1000-0400
3)	LRA16	560	25/5	La Quiaca	1000-0300
4)	LRA18	620	25/5	Rio Turbio	1000-0300
5)	LRA24	640	25/5	Rio Grande	0900-0500
6)	LRA4	690	25/5	Salta	1000-0500
7)	LRA9	700	25/5	Esquel	1030-0300
8)	LRA3	730	20/8	Santa Rosa	1000-0300
9)	LRA7	750	100/10	Córdoba	0945-0415
10)	LRA12	780	5	Santo Tomé	1000-0300
11)	LRA11	790	25/5	Comodoro Rivadavia	1000-0300
12)	LRA8	820	25/3	Formosa	1000-0500
13)	LRA17	830	25/5	Zapala	1000-0500
14)	LRA22	830	25/5	San Salvador de Jujuy	1000-0500
15)	LRA	°870	100	Buenos Aires	0800-0500
16)	LRA10	900	5	Ushuaia E Islas Malinas	1000-0500
17)	LRA23	910	50	San Juan	24h
18)	LRA6	°960	20/5	Mendoza	24h
19)	LRA15	1030	50/5	S.M. de Tucumán	1000-0300
20)	LRA19	°1030	25/3	Puerto Iguazu	1000-0500
21)	LRA21	1130	25/5	Stgo. del Estero	1000-0300
22)	LRA20	1270	5	Las Lomitas	1000-0300
23)	LRA5	1310	5	Rosario	1000-0300

Shortwaves:

Call	kHz	kW	Location/h. of tr.
15) LRA31	6060v	50	Buenos Aires: 0800-0500
15) LRA34	6180	10	Mendoza: 24h
15) LRA33	15345	50	Buenos Aires: 1230-1800(Sat/Sun 2030)

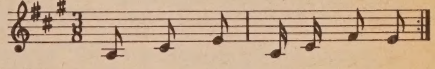
FM: LRA38 96.5MHz: 1000-0400, LRA37 99.1MHz: 1100-0500.
1) Mendoza 2430, 3000 Santa Fé, SF – Dir: Delio O. Longo.
2) Moreno 34, 6000 Bahía Blanca, BA – Dir: J.J. Calloni.
3) Ruta 9a 2 Km, 4650 La Quiaca, Jujuy – Dir: H.A. Lemos.
4) Casa 16, 9407 Rio Turbio, SC – Dir: R. Lozano.
5) Monsegnor Fagnano y Leonardo Rosales, 9420 Rio Grande, TF – Dir: J. de Amuchategui.
6) Mitre 294, 4400 Salta – Dir: Ramon F. de Vita.
7) Av. Alvear 1180, 9400 Esquel, Chubut – Dir: J.A. Benites.
8) Rivadavia 200, Esq. Lagos, 6300 Santa Rosa – Dir: J.J. Peralta.
9) Santa Rosa 241, 5000 Córdoba, Ca.
10) Chacra 46, La Tablada, 3340 Santo Tomé – Dir: M.H. Zapata.
11) San Martín y Moreno, 9000 Comodoro Rivadavia, Chubut – Dir: J. Horat.
12) 25 de Mayo 735, 3600 Formosa – Dir: A. Sian.
13) San Martín y Chanenton, 8340 Zapala, N – Dir: J.R. Romero.
14) Ramirez de Velasco 253, 4600 San Salvador de Jujuy – Dir: J.H. Passini Bonfanti.
15) Ayacucho 1556, 1112 Buenos Aires – Dir: A. Alvarez.
16) Av. San Martín 350, 9410 Ushuaia, TF – Dir: J.E. Mayor.
17) J. Ignacio de la Roza (Este) 293, 2° piso, 5400 San Juan – Dir: O. Perriot.
18) Emilio Civit 460, 5500 Mendoza, Ma – Dir: C.O. Pignolo.
19) San Martín 251, 4° piso, 4000 Tucumán – Dir: H. de la Silva.
20) Av. San Martín s/n, 3370 Pto. Iguazu.
21) Urquiza 332, 4200 Santiago del Estero – Dir: R. Arevalo.
22) Intersección Rutas 81 y 84, 3630 Las Lomitas, Formosa.
23) Córdoba 1331, 2000 Rosario, SF – Dir: L. Reyes.

INTERNATIONAL SERVICE

ADDR: Radiodif. Argentina al Exterio (RAE), Sarmiento 151, 1000 Buenos Aires. **Te:** 302121.
L.P: Head of Sce: Carlos Alais Rumbado.
STATIONS: LRA (Gral. Pacheco) (G.C: 58.22W/34.36S):

Call	kHz	kW	Beams	+) exc. Sat/Sun.
LRA32	9690	100	320°	0400-0700+, 1000-1200
			320°	0005-0300(Sat/Sun)
			350°	0000-0400+
LRA35	11710	100	35°	1900-2350+
			350°	2100-2355(Sat/Sun)

To Europe: 1900-2350(Mon-Fri) on 11710kHz(1900 Spanish, 2000 Italian, 2100 German, 2200 French, 2300 English), **N:** Spanish 1902, Italian 2002, German 2102, French 2202, English 2302).
To Latin America/Eastern No. America: 2100/2355(Sat/Sun) on 11710kHz in Spanish.
To No.Ce. and So.America: 0000-0700(Mon-Fri) on 9690kHz. (0000 Portuguese, 0100 Spanish, 0300 English, 0400 Spanish, 0600 English). **N:** Portuguese 0002, Spanish 0102, 0402, English 0302, 0602.
To Latin America/Western No.America: 0005-0300(Sat/Sun) on 9690kHz in Spanish.
NB: Days of the week refer to local time.
To Asia: 1100-1200 on 9690kHz in Japanese.
DX Prgr. every other Sat 2302 on 11710kHz, repeated Sun 0209 on 9690kHz.
ANN: Sp. "Aquí RAE". G: "Hier spricht RAE". I: "Qui RAE". F: "Ici RAE". E: "This is RAE Calling". P: "Aqui RAE" – **V.** by QSL-card.
INT-SIG:



OFFICIAL STATIONS

(Non-commercial stations owned by Provincial and Municipal Governments or State Universities)

	Call	kHz	kW	Name and h. of tr.
1)	LW1	580	25/5	R. Universidad Nal. de Córdoba, Córdoba: 0900-0400
2)	LT17	620	25/5	R. Provincia de Misiones, Posadas: 0855-0300
3)	LS1	710	50	R. Ciudad de Buenos Aires: 0900-0430
4)	—	730	5	R. Provincia de Sta. Cruz, Las Heras
4)	LU14	780	5	R. Provincia de Sta. Cruz, Río Gallegos: 1000-0700
5)	LT10	1020	10/5	R. Universidad Nacional Litoral, Santa Fé: 0800-0500
6)	LV19	°1120	5	R. Municipal, Malargüe: 1100-0100
7)	LS11	1270	50	R. Provincia de Buenos Aires, La Plata: 0900-0400
8)	LV18	1370	0.25	R. Municipal de San Rafael, San Rafael: 0900-0430
9)	LR11	1390	10	R. Universidad Nal, La Plata: 1100-0300
10)	LT21	1430	1/0.5	R. Municipal de Alvear, Alvear: 1200-2400

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PACIFIC OCEAN
ATLANTIC OCEAN
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PERU
CHILE
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SURINAM
GUIANA (Fr.)
BOLIVIA
PARAGUAY
URUGUAY
ECUADOR
PANAMA
Netherlands Antilles
Windward Islands
PORT OF SPAIN
BARRANQUILLA
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CUMANA
MARACAIBO
BARQUISIMETO
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TEMUCO
VALDIVIA
PUERTO MONTT
NEUQUEN
BAHIA BLANCA
MAR DEL PLATA
NECOCHEA
SAN CARLOS DE BARILOCHE
ESQUEL
C. RIVADAVIA
RIO GALLEGOS
STANLEY
PUNTA ARENAS
USHUAIA
Falklands Islands
EQUATOR
0°
15°
30°
45°
60°
75°
90°
TROPIC OF CAPRICORN
SOUTH AMERICA
KM
0
500
1000
1500

Call	kHz	kW	Name and h. of tr.
11) LT19	1550	0.25	R. Municipal de Santo Tomé, Santo Tomé: 0100-0500
6) LV19	6160	5	R. Municipal, Malargüe: irr.

1) Rivera Indarte 170, Córdoba.
2) Junín 383, 3300 Posadas, Misiones, Ms.
3) Sarmiento 1551, 1042 Buenos Aires – Contr: G.F. Leonard.
4) Roca 825, 9400 Río Gallegos, SC – Contr: E.L. Ezpeleta.
5) 9 de Julio 3560, 3000 Santa Fé, SF – Dir.Gen: L.H. Bonaparte.
6) Palacio Municipal Uriburo y Fray Analicán, 5613 Malargüe, MA – Contr: R. Beseda.
7) Calle 10 y Av. 53, 1900 La Plata, BA – Contr: C.A. Iglesias. Mgr: R. Pozzo.
8) Belgrano y Comandante Salas, 5600 San Rafael, Mendoza, MA.
9) Plaza Dardo Roche 133, 1900 La Plata, BA – Contr: R.A. Sagastume. (Also announces "La Emisora de la Univ. de La Plata, La Voz de la Juventud").
10) Calle Centenario 550, 3344 Alvear, Cs – Contr: J. Cabral.
11) Victor Navajas 844, 3340 Santo Tomé, CS – Contr: R. Cruz B.

GOVERNMENT OWNED COMMERCIAL STATIONS
ADMINISTRACION GENERAL DE EMISORAS COMERCIALES DE RADIO Y TELEVISION

ADDR: Uruguay 291, 1015 Buenos Aires. **Te:** 401121.

PRIVATELY OWNED COMMERCIAL STATIONS
ASOCIACION RADIODIFUSORAS PRIVADAS ARGENTINAS (ARPA)

ADDR: Cangallo 1561, 1037 Buenos Aires. **Te:** 354412.
L.P: Pres: Evaristo R.E. Alonso.
Mediumwaves: °) Shortwave; Network affiliation for Gov. owned st's: A=El Mundo, B=Belgrano, C=Splendid. St's not belonging to any of these networks are privately owned.

Call	Net.	kHz	kW	Name, location and h. of tr.
1) LV1		560	25/5	R. Colón, San Juan: 0930-0500
2) LT15		560	10	R. del Litoral, Concordia: 0800-0300
3) LU20		580	10/5	R. Chubut, Trelew: 0930-0400
4) LV12	B	590	25/5	R. Independencia, Tucumán: 0900-0400
5) LS4		590	25/5	R. Continental, Buenos Aires: 24h
6) LU8	C	590	25/5	R. Bariloche, San Carlos de Bariloche: 1000-0400
7) LV14	C	620	5/1.5	R. Joaquín V. Gonzáles, La Rioja: 1000-0400
8) LU15		620	5	R. Viedma, Viedma: 1000-0300
9) LS5		630	25	R. Rivadavia, Buenos Aires: 24h
10) LW8		630	25/5	R. San Salvador, San Salvador: 0900-0300
11) LU4	A	630	25/5	R. Patagonia Argentina, Comodoro Rivadavia: 0900-0400
12) LU18		640	1	R. El Valle, General Roca: 1000-0300
13) LV15	C	640	1	R. Villa Mercedes: 0955-0300
14) LT4		670	25/5	R. Dif. Misiones, Posadas: 0800-0300
15) LU9		670	25/5	Emisora Mar del Plata: 24h
16) LU12		680	30	R. Río Gallegos: 1000-0700
17) LU17		680	5	R. Golfo Nuevo, Puerto Madryn: 1000-0300
18) LV6		680	25/5	R. Nihuil, Mendoza: 0900-0400
19) LU19		690	10/5	R. La Voz del Comahue, Cipolletti: 0900-0400
20) LV10		720	25/5	R. de Cuyo, Mendoza: 0900-0400
21) LW7	A	730	5/1	R. Catamarca, Catamarca: 1000-0400
22) LV8	A	780	25/5	R. Libertador, Mendoza: 0900-0400
23) LR6	A	790	50	R. Mitre, Buenos Aires: 24h
24) LU24		820	3	R. Tres Arroyos: 0900-0400
25) LT8	B	830	10/5	R. Rosario, Rosario: 24h
26) LT12	B	840	10/5	R. General Madariaga, Paso de los Libros: 0900-0300
27) LU2		840	25/5	R. Bahía Blanca: 0900-0500
28) LV11		890	25/5	R. Santiago del Estero: 0900-0400
29) LU33	B	890	25	Em. Pampeana, Sta. Rosa: 0930-0330
30) LT7		900	25/2.5	R. Corrientes: 0900-0300
31) LV13	A	900	25/5	R. Granaderos Puntanos, San Luis: 0930-0300
32) LR5	C	910	25/5	R. Excelsior, Buenos Aires: 24h
33) LR3	B	°950	100	R. Belgrano, "La Radio", Buenos Aires: 24h
34) LT16	B	960	20/3	R. Pres. Roque Sáenz Pena: 0900-0330
35) LV2	B	970	25/10	R. Gral. Paz, Córdoba: 24h
32) LR4	C	990	50	R. Splendid, Buenos Aires: 24h
36) LV16		1010	20/5	R. Río Cuarto: 24h
37) LU21		1020	5	R. Golfo San Jorge, Caleta Olivia: 1000-0300
39) LS10		1030	25/5	R. del Plata, Buenos Aires: 24h
23) LR1	A	°1070	100	R. El Mundo, Buenos Aires: 24h
40) LU16		1080	1	R. Rio Negro, Villa Regina: 1000-0300
41) LV5	B	1090	25/5	R. Sarmiento, San Juan: 0930-0430
42) LR2	B	1110	20/5	R. Argentina, Buenos Aires: 0800-0600
43) LV7	A	1110	10/5	R. Tucumán, Tucumán: 24h
44) LU13		1120	10/3	R. Necochea: 0900-0400
45) LU5	C	1130	20/5	R. Neuquén, Neuquén: 0900-0500
46) LT5	A	1150	25/5	R. Chaco, Resistencia: 0900-0400
47) LU6	A	1150	25/5	R. Atlántica, Mar del Plata: 24h
48) LT3	A	1160	10/8	R. Cerealista, Rosario: 0900-0400
49) LV9		1160	25/5	R. Salta: 0900-0500
50) LV4	C	1170	25/5	R. San Rafael: 0900-0400
23) LR9	A	1190	5	R. Antártida, Buenos Aires: 24h
51) LW3	C	1190	10/5	R. Splendid Tucumán: 1000-0400
52) LU3		1200	25/5	R. del Sur, Bahia Blanca: 0800-0500
53) LT6	C	1200	5/3	R. Genaro Berón de Estrada, Goya: 0900-0300
54) LT18		1210	1/0.5	R. Eldorado: 0900-0100
55) LV3	A	1210	25/5	R. Córdoba: 0900-0400
56) LT2	C	1230	15/5	R. Splendid Rosario, "Su Radio": 0900-0600
57) LU7	A	1240	20/5	R. General San Martin, Bahia Blanca: 1000-0330
58) LT9		1260	10/5	R. Brig. Gral. Estanislao López, Santa Fé: 24h
59) LT11	C	1300	3/1.5	R. Splendid, Concepción del Uruguay: 0930-0600
60) LU22		1300	5/1.5	R. Tandil: 0900-0400
61) LU10		1320	5/3	R. Azul: 0900-0300
62) LT14	B	1330	10/2.5	R. General Urquiza, Paraná: 24h
63) LS6	B	1350	10/5	R. del Pueblo, Buenos Aires: 0900-0400
64) LU32	C	1380	5/1	R. Olavarria: 0900-0300
65) LU11		1400	10/2	Radioemisora del Oeste, Trenque Lauquén: 24h
66) LT24		1430	1	R. San Nicolás: 0900-0400
67) LU26		1430	0.25	Em. Coronel Dorrego: 1000-0300
68) LU29		1430	0.25	Em. Cóndor, Las Flores: 1005-0100

	Call	Net.	kHz	kW	Name, location and h. of tr.
69)	LV26		1430	1/0.25	R. Río Tercero: 0900-0300
70)	LV20		1440	1/0.25	R. Laboulaye: 1000-0300
71)	LV27		1440	1/0.25	R. San Francisco: 0900-0300
72)	LT41		1440	0.25	R. La Voz del Sur Entrerriano, Gualeguaychu: 1000-0200
73)	LT44		1450	1/0.25	R. Fortín Yunká, Formosa: 0900-0400
74)	LV28		1450	1/0.25	R. Villa Maria: 0900-0300
75)	LW2		1460	0.25	Radioemisora Tartagal: 1100-0300
76	LT29		1460	1	R. Venado Tuerto: 1000-0400
77)	LU30		1460	0.25	R. Maipú: 0900-0300
78)	LT13		1470	1/0.5	R. Oberá: 0900-0300
79)	LT20		1470	1/0.5	R. Junín: 1000-0400
80)	LT26		1470	1	R. Nuevo Mundo, Colón: 0900-0300
81)	LT28		1470	1/0.5	R. Rafaela: 0900-0300
82)	LT43		1470	1	R. Mocoví Charata: 0900-0300
83)	LT39		1480	0.25	Em. Victoria: 0900-0300
84)	LU35		1480	0.25	R. Balcarce: 0900-0300
85)	LV23		1480	1/0.5	R. Río Atuel, Gral. Alvear: 1000-0400
86)	LT42		1490	1/0.5	R. del Iberá, Mercedes: 0900-0300
87)	LV22		1490	1	R. Huinca, Renancó: 1000-0300
88)	LT22		1500	0.25	R. Nueva Era, Pehuajó: 1100-0300
89)	LT34		1500	0.25	R. Nuclear, Zárate: 0900-0400
90)	LT45		1500	1	R. San Javier: 1000-2100
91)	LU27		1500	0.25	R. Dolores: 1000-0300
92)	LV25		1500	1	R. Unión, Bell Ville: 0900-0300
93)	LW4		1510	0.25	R. Orán: 1100-0300
94)	LV21		1510	0.25	R. Champaquí, Villa Dolores: 1000-0100
95)	LU36		1510	0.25	R. Coronel Suárez: 1000-0300
96)	LT25		1520	0.25	R. Guaraní, Curuzú Cuatiá: 0900-0300
97)	LT37		1520	0.25	Emis, Rufino: 1000-0300
98)	LV24		1520	1	R. Manantiales, Tunuyan: 1000-0300
99)	LU25		1530	0.1	R. Carhué: 1000-0300
100)	LW5		1530	5	R. Libertador Gral. San Martín, Ledesma: 1000-0400
101)	LT35		1540	0.25	R. Mon. Pergamino: 1000-0300
102)	LU37		1540	10	R. Gral. Pico: 1000-0300
103)	LU28		1540	0.25	R. Tuyú, Gral. Madariaga: 1000-0300
104)	LT23		1550	0.25	R. San Jenaro Norte: 1000-0215
105)	LT32		1550	0.25	R. Chivilcoy: 0900-0300
106)	LT40		1550	0.25	R. La Voz de La Paz, La Paz: 1000-0200
107)	LU34		1550	0.25	R. Pigue: 1000-0300
108)	LT33		1560	0.25	R. Nueve de Julio, Neuve de Julio: 1000-0430
109)	LT38		1560	0.25	R. Gualeguay, Gualeguay: 0900-0300
110)	LT27		1580	0.25	R. La Voz del Montiel Villaguay: 1000-0400
111)	LT36		1580	0.25	R. Chacabuco: 1000-0300

Shortwaves: Location: Buenos Aires.

	Call	Net	kHz	kW	Name, h. of tr.
32)	LRS2	C	5985	2	R. Splendid: 0900-0130 (Sat 1400-0530)
33)	LRY1	B	6090	30	R. Belgrano: Mon-Fri 1000-0300
23)	LRX1	A	6120	10	R. El Mundo: 24h
23)	LRX2	A	9705	7.5	R. El Mundo: 24h
32)	LRS1	C	9740	10	R. Splendid: 0900-0130 (Sat 1400-0530)
23)	LRX	A	11755	10	R. El Mundo: 2100-0300
33)	LRY2	B	11780	8	R. Belgrano: irr.
32)	LRS	C	11880	20	R. Splendid: 0900-0130 (Sat 1400-0530)
23)	LRU	A	15290	10	R. El Mundo: 0900-1300

The tr's of R. Belgrano are used by st. 42) on Sat and Sun 0130-0330 for broadc. of Football and Boxing matches (irr.)

State abbreviations (Provincias): BA=Provincia de Buenos Aires; C=Catamarca; Ca=Córdoba; Cs=Corrientes; Ch=Chaco; Ct=Chubut; ER=Entre Rios; F=Formosa; J=Jujuy; LP=La Pampa; LR=La Rioja; Ms=Misiones; Ma=Mendoza; N=Neuquén; Rn=Río Negro; S=Salta; SC=Santa Cruz; SE=Santiago del Estero; SF=Santa Fé; SJ=San Juan; SL=San Luís; TF=Tierra del Fuego; T=Tucumán.

NB: These abbreviations may be used for postal purposes, although it is more common to use full name.

Addresses and other information:

1) Mendoza 169, 5400 San Juan, SJ.
2) Cas. 21, Concordia, ER – Dir.Gen: Hugo H. Soria.
3) Cas. 117, Trelew, Ct.
4) Rivadavia 118, 4000 Tucumán – Contr: Pedro D. Cagua.
5) Rivadavia 827, Buenos Aires – Dir: Sra. E. de Udaquiola.
6) Ruta 237 – Km 1, San Carlos de Bariloche, RN – Contr: Francisco José Calo.
7) Mitre 745, 5300 La Rioja, LR – Contr: L.W. Bories.
8) Cas. 39, Viedma, RN – Dir: O. Aldo Liccardi.
9) Arenales 2467, Buenos Aires – Dir: J.R. Talamoní.
10) 19 de Abril 749, 4600 S. Salvador, J – Dir: F. Peréz P.
11) Cas. 299, 9000 Comodoro Rivadavia, Ct.
12) Cas. 77, Gral. Roca, RN – Dir: J.L. Japaz.
13) Balcarce 470, Villa Mercedes, SL – Contr: F.T. del Carril.
14) Cas. 200, 3300 Posadas, Ms – Pte: P. Warenycia.
15) Rodríguez Peña 2053, 7600 Mar del Plata, BA – Dir: R.A. Barberis.
16) Av. Zapiola 25, 9400 Río Gallegos, SC – Dir: A.R. Segovia.
17) Estivariz 226, Pto. Madryn, Ct – Owner: Hector G. Castro.
18) Echeverría 144, 5500 Mendoza, Ma – Dir: G.F. Sánchez C.
19) Cas. 14, Cipolletti, RN – Dir: R. Rost.
20) Av. San Martín y Gral. Paz, 5500 Mendoza, Ma – Dir: M. Fernández R.
21) Rivadavia 741, Catamarca – Contr: E.N. Marcos.
22) Rioja 1484, 5500 Mendoza – Contr: J.A. Oesterheld.
23) Maipú 555, 1425 Buenos Aires – Contr: Hugo C. Adamoli.
24) Av. Belgrano 457, Tres Arroyos, BA – Dir: R.E. Alonso. Dir.Tec: A. Bozzani.
25) Cas. 470, 2000 Rosario, SF – Contr: Dardo U. Migno.
26) Av. General San Martín 2081, Paso de los Libres, Cs.
27) Sarmiento 54, 6000 Bahía Blanca – DG: D.J. de Massot.
28) 9 de Julio 390, 4200 Santiago del Estero, SE – Contr: Eduardo Walter Luna.
29) Av. San Martín 227, 6300 Santa Rosa, LP – Dir: S. Parodi.
30) Rioja 743, 3400 Corrientes, Cs – Dir.Gen: J. Féliz Gomez.
31) Rivadavia 563, San Luís, SL.
32) Arenales 1925, Buenos Aires – Contr: Jorge S. Pedrerol.
33) Uruguay 1237, Buenos Aires – Contr: Mayor H. Busaglia.
34) Justo José de Urquiza 585, Presidencia Roque Sáenz Peña, Ch – Contr: E. Blum Flores.
35) Chacabuco 851, 5000 Córdoba.
36) Rivadavia 180, Río Cuarto, 5000 Córdoba – Dir.Gen: C. Biset.
37) Cas. 10, Caleta Olivia, SC – Dir: Héctor M. Ferro.
39) Av. Santa Fé 2043, Buenos Aires – Dir: G. Perrone.
40) Reconquista 135, Villa Regina, RN – Dir: R.A. Musso.
41) Mendoza 452 Sur, 5400 San Juan, SJ – Contr: C. Lambrechts.
42) Uruguay 1237, Buenos Aires – Contr: D. Adamo.
43) Mendoza 278, San Miguel de Tucumán, T.
44) Balcarce 2950, Necochea, BA – Dir: F. Jungblut.

45) Juan Alberdi 189, Neuquén, N – Contr: O.A.T. Fox.
46) 9 de Julio 1855, Resistencia, Ch – Contr: O. Benitez.
47) Córdoba 1868, Mar del Plata, BA – Contr: L.P. Doria.
48) Balcarce 840, Rosario, SF – Contr: V. Mainetti.
49) Cas. 113, Salta – Dir: J. Urrestarazu P.
50) Irigoyan y Francia, San Rafael, Ma – Contr: V. Chumilla.
51) Mendoza 225, Tucumán, T – Contr: E. Valy.
52) Lamadrid 116, Bahía Blanca – Dir: O. Levantesi.
53) Mariano I. Lloza 231, Goya, Cs – Contr: F. Prevosti.
54) Cas. 218, Eldorado, Ms – Dir: J.L. Colcombet.
55) Cas. 450, Córdoba – Contr: W. Fox.
56) Santa Fé 1388, Rosario, SF – Contr: E. Baggni.
57) Alsina 247, Bahí Blanca – L.A. Lischinsky.
58) 4 de Enero 2153, Santa Fé, SF – Dir: E.B. Scocco.
59) Onésimo Leguizamón 269, Concepción del Uruguay, ER – Contr: A. Moret.
60) Cas. 231, Tandil, BA – Dir: H. Fortunato.
61) Av. Mitre 819, Azul, BA – Dir: J.A. Borrero.
62) Cas. 1, Paraná, ER – Contr: C.M. Wildner Fox.
63) Uruguay 1237, Buenos Aires – Contr: Mayor H. Busaglia.
64) San Martín 2961, Olavarría, BA – Contr: L.A. Lischinsky.
65) Cas. 36, Trenque Lauquen, BA – Dir: O. Izurrieta P.
66) Av. Moreno 17, San Nicolás, BA.
67) Hipólito Irigoyen 622, Coronel Dorrego, BA.
68) Avellaneda 773, Las Flores, BA – Dir: A. Ganum.
69) Roque Sáenz Peña 111, Río Tercero, Ca – Dir: J.R. Patti.
70) Tucumán 159, Laboulaye, CA – Dir: J. Alisio.
71) Colón 26, San Francisco, Ca – Gte.Admor: O. Lanzetti.
72) Fray Mocho 486, Gualeguaychú, ER – Dir: A.N. Mettler.
73) José M. Uriburu y Dean Funes, Formosa, F – Dir: J.J. Martín.
74) Santa Fé 1490, Villa María, Ca – Dir: R. Kfuri.
75) Gorriti 524, Tartagal, S – Dir: N.S. Martínez Gil.
76) Iturraspe 777, Venado Tuerto, SF – Owner: Hilmar H. Long.
77) Cas. 60, Maipú, BA – Dir: J. Larrarte.
78) Larrea 885, Oberá, Ms – Dir: H. Amable.
79) Hipólito Irigoyen 86, Junín, BA – Dir: R.A. Tieri.
80) Av. Rivadavia 244, Colón, ER – Dir: Edwin R. Benitez.
81) Blvd. Lehmann 237, Rafaela, SF – Dir: A. Robert.
82) Cas. 83, Charata, Ch – Dir: A. Zinzer.
83) Matanza 18, Victoria, ER – Dir: G.A. Anghilante.
84) Av. Kelly 813, Balcarce, BA – Dir: C. Cortéz.
85) Patricias Mendocinas 72/78, Gral. Alvear, Ma – Dir: A.S. Pesce.
86) Av. A. Aguirre, Km 2, Mercedes, Cs – Dir: E.U. Crudele.
87) Santa Fé y La Pampa, Huinca Renancó, Ca – Dir: O.A. Berlaffa.
88) Alsina 415, Pehuajó, BA – Dir: R. Negreira.
89) Independencia 501, Zárate, BA – Dir: F.N. Perusco.
90) Libertad y Ordoñez, 758, San Javier, Ms – Dir: J.E. Gamas.
91) Rico 424, Dolores, BA – Dir: E.E. Giles.
92) José Villarba s/n, Bell Ville, Ca – Dir: A. Tela.
93) Cas. 77, Orán, S – Dir: G. Bernad.
94) Belgrano 33, Villa Dolores, Ca – Dir: O. Careglio.
95) Avellaneda 1144, Coronel Suárez, BA – Dir: O. Frers.
96) Cas. 17, Curuzú Cuatía, Cs – Dir: J.J. Verela.
97) Chacabuco 128, Rufino, SF – Dir: S.T. Valeri.
98) Alem y Juan B. Justo, Tunuyán, Ma – Dir: F. Rossi.
99) Av. Colón y Rivadavia, Carhué, BA – Dir: M.V. Fernández.
100) Victoria 450, Ledesma, J – Dir: H.A. Anuati.
101) Dr. Alem 340, Pergamino, BA – Dir: E. Montardit.
102) Calle 29 y 40, Gral. Pico, LP – Dir: D.P. Baruta.
103) Moreno 832, Gral. Madariaga, BA – Dir: H. Maceira.
104) San Martín y Juan Chávarri, San Jenero Norte, SF – Dir: N.R. Maritano.
105) Cas. 179, Chivilcoy, BA – Dir: A.R. Falcone.
106) Sáenz Peña 1082, La Paz, ER – Dir: C.A. Malvasio.
107) Parque Municipal, Pigüí, BA – Dir: I. Angel B.
108) Continuacción Av. Bmé. Mitre-Sección "A", 9 de Julio, BA – Dir: H.R. Tinetti.
109) Chacabuco 38, Gualeguay, ER – Pte: A. Carbone.
110) Cas. 40, Villaguay, ER – Dir: J. Lavini.
111) Alte. Brown 135, Chacabuco, BA – Dir: O.R. Echevarría.

BOLIVIA

L.T: GMT–4h - **Pr.L:** Spanish – **E.C:** a/c 50 or 60, 110/220V (no).

DIRECCION GENERAL DE TELECOMUNICACIONES

La Paz. **Cable:** Gentel.
L.P: Dir.Gen: Ing. René H. Osorio B.

ASOCIACION BOLIVIANA DE RADIODIFUSORAS (ASBORA)

ADDR: Casilla 5028, La Paz. **Te:** 25883.
L.P: Pres: R. Salmón. Vice-Pres: J. Blanco G. Secr.Gen: L. Suárez B. Permanent Secr: F. Andulce.

STATIONS: Mediumwaves: °=shortwave.

	Call	kHz	kW	Name, location and h. of tr.
1)	CP91	°580	10	R. Panamericana, La Paz: 24h.
2)	CP63	610	10	R. San Gabriel, La Paz: 0830-0200
3)	CP34	680	4	R. Méndez, La Paz: 0900-0400
4)	CP27	°730	10	La Cruz del Sur, La Paz: 1000-0200
5)	CP—	730	5	R. Mensaje, Montero
6)	CP46	°780	0.25	R. Universo, La Paz
7)	CP108	780	0.5	R. Independencia, Quillacollo: 1000-0300
8)	CP25	800	0.25	R. Potosí, Potosí
9)	CP35	°820	1	R. Altiplano, La Paz: 1200-0300
10)	CP79	900	0.25	La Voz Nacional, Tarija
11)	CP112	°930	0.25	R. Frontera, Yacuiba
12)	CP125	900	0.25	R. Metropolitana, La Paz: 1100-0400
13)	CP11	°930	0.25	R. Amauta, La Paz: 1200-1800, 2200-0400
14)	CP48	°930	5	R. Piraí, Sta. Cruz
15)	CP32	°960	0.25	R. Santa Cruz, Sta. Cruz: 1200-1800, 2200-0300
16)	CP93	960	0.5	R. Kollasuyu, Potosí: 0930-0400
17)	CP124	960	1	R. Atlántida, Oruro
18)	CP28	1000	2.5	R. Cochabamba, Cochabamba: 1000-0500
19)	CP4	1020	20	R. Illimani, La Paz: 0900-0400
20)	CP45	1090	0.25	R. Cultura, Cochabamba
21)	CP57	°1090	10	R. Progreso, La Paz
22)	CP55	1100	0.25	R. Universidad, Oruro: 1100-1800, 2100-0300
23)	CP129	°1110	1.4	R. El Sol de Septiembre, Cochabamba
24)	CP83	°1115	0.5	R. Norte, Montero: 1100-0400
25)	CP25	°1160	0.25	R. Centenario, Sta. Cruz
26)	CP78	1160	0.25	R. Tunari, Cochabamba
27)	CP19	°1160	0.5	R. Agustín Aspiazu, La Paz: 0900-0400
28)	CP98	1160	0.25	R. Nuevo Mundo, Sucre
29)	CP67	1200	1	R. Splendid, La Paz: 1000-0230
30)	CP37	°1200	0.25	R. Santa Ana, Sta. Ana de Yacuma: 1800-0100
32)	CP54	°1250	1	R. La Plata, Sucre: 1000-0400
33)	CP47	°1250	0.25	R. Cobija, Cobija: 1000-0300
34)	CP17	°1250	0.25	R. Sararenda, Camiri: 1100-0300
35)	CP16	°1250	0.25	R. Los Andes, Tarija: 1000-0400
36)	CP26	°1250	1	R. Amboró, Sta. Cruz: 1000-0400
37)	CP53	°1250	0.25	R. Indoamérica, Potosí: 1130-0300
38)	CP69	°1250	1	R. Nacional, Cochabamba: 2100-0300
39)	CP14	1250	1	Emis. Unidas, La Paz: 1100-0400
40)	CP65	1250	0.25	R. Oruro, Oruro: 1400-1900, 2100-0300
41)	CP100	°1250	0.25	R. Ibaré, Trinidad
42)	CP29	°1300	1	R. Fides, La Paz: 1030-1930, 2200-0310
43)	CP41	°1300	1	R. Loyola, Sucre: 1100-0330
44)	CP68	1300	10	R. San Rafael, Cochabamba: 0900-0330
45)	CP16	1330	0.25	R. Mercurio, Oruro
46)	CP106	1330	0.25	R. Trinidad, Trinidad
47)	CP24	°1340	0.25	R. Grigotá, Sta. Cruz: 1000-0300
48)	CP128	1340	1	R. La Crónica, Sucre
49)	CP82	1350	1	R. Electra, Potosí: 1030-0400

	Call	kHz	kW	Name, location and h. of tr.
50)	CP133	°1370	0.5	R. Dif. Tupiza, Tupiza: 1100-0330
51)	CP3	°1390	1	R. Nal. de Bolivia, La Paz: 0800-0300
52)	CP113	1390	0.25	R. Villazón,Villazón
53)	CP122	°1390	1	R. Nuevo Mundo, Trinidad
54)	CP49	1420	1	R. Centro, Cochabamba: 1000-0430
55)	CP141	1430	0.25	R. Nuestro Señor de Burgos: 1030-1400, 2230-0200
56)	CP72	1440	0.5	R. Batallón Colorados, La Paz
57)	CP104	1440	0.5	R. Oriente, Camiri
58)	CP107	1440	0.25	R. Yaguari, Vallegrande
59)	CP119	°1440	1	R. Trópico, Trinidad: 1030-0230
60)	CP61	°1450	1	Radioem. Bolivia, Oruro: 0900-0500
61)	—	1450	0.25	R. Willy Bendeck, Sta. Cruz
62)	CP8	°1470	1	R. Nueva América, La Paz: 1055-0500
63)	CP1	1510	0.25	R. Chuquisaca, La Paz
64)	CP80	1510	0.25	R. Litoral, Cochabamba
65)	CP101	1510	0.25	R. Suipacha, Villazón
66)	CP102	°1520	0.25	R. 27 de Diciembre, Villa Montes
67)	CP111	°1530	0.25	Radioem. Ballivián, San Borja
68)	CP116	1530	0.5	R. Cosmos, Cochabamba: 1000-0400
69)	CP50	1550	0.5	R. Pio XII, Siglo Veinte: 1100-0400
70)	CP115	1550	1	R. Caranavi, Caranavi
71)	CP132	1570	1	R. Continental, La Paz
72)	CP162	1570	0.25	R. Batallón Topater, Oruro: 1000-0400
73)	CP118	1590	0.25	R. Eduardo Avaroa, Caranavi: 1000-0600
74)	—	1600		R. Guyapay, Santa Cruz

Shortwaves: All st's comm. exc. 4), 30), 65)(Rlg), 19) (Gov). r=reported, nom=nominal freq, v=varying.

	Call	kHz	kW	Name, location and h. of tr.
11)	CP131	3330	1	R. Frontera, Yacuiba
75)	CP99	3340	1	R. Viloco, Viloco: 1200-0400
76)	CP85	3370	0.5	R. Universidad, Tarija
77)	CP109	3380	0.25	R. Reyes, Reyes
78)	CP—	3390	—	R. Camargo, Camargo: 2245-0300
66)	CP103	3440	1	R. 27 de Diciembre, Villa Montes: 2200-0200v
79)	CP—	v3490	0.3	Radioem. Alfonso Padilla Vega, Padilla: 2230-0200v
80)	CP—	v4425	0.25	Paititi Radiodifusión, Guayaramerín: 2200-0400
81)	CP142	v4465	1	R. Movima, Sta. Ana de Yacuma: 2200-0400
82)	CP147	v4605	1	R. Mamoré, Guayaramerín: 1130-0200v
83)	CP114	4705	1	R. San Miguel, Riberalta (nom.4805): 0900-0300
84)	CP117	v4730	0.5	R. Riberalta, Riberalta(nom.4775): 1100-0300
85)	CP136	4738	1	R. Abaroa "La Voz de Riberalta", Riberalta(nom.4760): 1000-0430
60)	CP62	v4753	5	Radioem. Bolivia, Oruro: 1000-0500
59)	CP120	v4760	1.5	R. Trópico, Trinidad: 1000-0230
35)	CP84	4775	1	R. Los Andes, Tarija: 1000-0330
37)	CP74	4785	1	R. Indoamérica, Potosí: 1130-0300
86)	CP152	v4785	0.5	Radioem. Ballivián, San Borja: irr.
58)	CP123	4785	0.5	R. Nuevo Mundo, Trinidad
62)	CP73	v4797	1	R. Nueva América, La Paz: 1055-1830, 2100-0400
87)	CP—	r4808		R. La Voz de la Frontera, Pto. Suarez: 1100-0200
88)	CP56	4815	1	R. Onkoi, Concepción
51)	CP144	4815	1.5	R. Nal. de Bolivia, La Paz: 0900-0300
47)	CP70	4823	1	R. Grigotá, Sta. Cruz: 1000-0330
42)	CP72	4845	5	R. Fides, La Paz: 1030-1930, 2200-0300
25)	CP66	4853	1	R. Centenario, Sta. Cruz: 1000-0400
33)	CP59	4855	1	R. Cobija, Cobija: 1000-0300
89)	CP162	4860	0.25	R. Batallón Topater, Oruro: 1000-0400
4)	CP75	4875	10	La Cruz del Sur, La Paz: 1000-1800, 2230-0200
30)	CP89	4885	0.25	R. Santa Ana "La Voz del Yacuma", Sta. Ana de Yacuma: 1800-0100
34)	CP77	4885	1	R. Sararenda, Camiri: 1100-0400
36)	CP88	4915	5	R. Amboró, Sta. Cruz: 1000-0400
24)	CP110	4938	1.5	R. Norte, Montero(nom.4935): 1100-1800, 2100-0400
41)	CP105	4959	0.5	R. Ibaré, Trinidad(nom.4955)
90)	CP163	4965	1	R. Animas, Chocaya: 1100-1930, 2100-0300
91)	CP90	v4980	1.4	R. Juan XXIII, San Ignacio (nom.4965): 1000-1630, 2230-0130
92)	CP151	4990	0.5	Radioem. Beni, Trinidad
6)	CP48	5006	1	R. Universo, La Paz: 1000-0430
9)	CP58	5045	5	R. Altiplano, La Paz
44)	CP87	5055	5	R. San Rafael, Cochabamba
93)	CP—	v5580	—	R. San José, Chiquitos: 1125-1545, 1825-0300
76)	CP85	r5720	0.5	R. Universidad, Tarija
94)	CP—	r5965	1	R. Nacional, Huanuni
38)	CP44	5975	1	R. Nacional, Cochabamba: 1200-0300
43)	CP51	5995	1	R. Loyola, Sucre: 1000-1800, 2130-2400
21)	CP58	6005	10	R. Progreso, La Paz
23)	CP130	6015	1	R. El Sol de Septiembre, Cochabamba
1)	CP92	v6035	10	R. Panamericana, La Paz: 24h
95)	CP18	6069	1	R. El Cóndor, Oruro(nom.6055): 1200-1800, 2200-0200
96)	CP—	r6082	—	R. 21 de Diciembre, Catavi
15)	CP30	6140	1	R. Sta. Cruz, Sta. Cruz: 1000-0400
42)	CP12	6155	1	R. Fides, La Paz: 1030-2200
50)	CP—	6170	1	R. Dif. Tupiza, Tupiza
13)	CP9	6185	1	R. Amauta, La Paz: 1200-1800, 2200-0400
6)	CP71	6195	1	R. Universo, La Paz
97)	CP81	6210	0.5	R. Luis de Fuentes, Tarija (nom.6140): 1100-2200, 2300-0300
50)	CP—	r6293	1	R. Dif. Tupiza, Tupiza: 1100-0330
98)	CP—	r6375	—	R. Sumac Orko, Potosí: 2200-0400
6)	CP64	9505	1	R. Universo, La Paz
19)	CP6	9555	10	R. Illimani, La Paz: 1100-1300, 1600-0400
27)	CP13	9600	1	R. Agustín Aspiazu, La Paz
14)	CP97	9607	1	R. Pirai, Sta. Cruz
32)	CP21	9715	1	R. La Plata, Sucre: 1330-1800, 2200-0400

Addresses and other information:

ERBOL (Escuelas Radiofónicas de Bolivia), Cas. 4064, La Paz – Pte: José Gramunt S.
Affiliated st's: 2), 24), 42), 43), 55), 69), 83) and 88).

1) Cas. 5263, La Paz – Dir: M.A. Dueri. Mgr: J. Vásquez de la B.
2) Cas. 1071, La Paz – Dir: D. Steed.
3) Av. 6 de Agosto 2008, La Paz – Mgr: L. Chávez.
4) Cajón 1408, La Paz – Dir: J. Mickaelsen. Gte: Martha R. de Loss – **English** 0130-0200, **German** 0115-0130.
5) Cas. 1, Montero, Sta. Cruz – Dir: Padre P. Feletti.
6) Cas. 232, La Paz – DG: J. Blanco G.
7) Ballivián 65, Quillacollo, Cochabamba – Dir: R. Rojas B.
8) Cas. 150, Potosí – Dir: E. Rodríguez.
9) Cas. 1081, La Paz – DG: M. Marañon. Gte: L. Chávez.
10) Correo Central, Tarija.
11) Yacuiba, Tarija – Dir: J. Castillo R.
12) Cas. 3771, La Paz – Dir: Sra. Alicia V. de Smith.
13) Cas. 586, La Paz – DG: L.S. Pérez.
14) Cas. 617, Santa Cruz – Dir: Arzabe.
15) Cas. 672, Santa Cruz – Dir: E. Peña S.
16) Cas. 271, Potosí – Mgr: M. Ugarte R.
17) Oruro – Dir: F. Garcia.
18) Cas. 2772, Cochabamba – Dir: J.L. Rada P.
19) Cas. 1042, La Paz – DG: R. Cuevas R.
20) Cas. 422, Cochabamba – Dir: J. Maldonado M.
21) Cas. 4342, La Paz – Dir: W. Cerruto C.
22) Cas. 49, Oruro – Dir: R. Encinas S.
24) Cas. 19, Montero, Sta. Cruz – Mgr: L. Arteaga R.
25) Cas. 818, Santa Cruz – Dir: J. Arauz.
26) Cochabamba – Dir: R. Montecinos L.
27) Indaburo 971, La Paz – DG: H.A. Aspiazu N.

28) Correo Central, Sucre.
29) Cas. 1539, La Paz – Dir: G. Velasco A.
30) Calle Cobija esq. Bolívar, Sta. Ana de Yacuma, Beni – Dir: D.G. Vda. de Rojas.
32) Cas. 276, Sucre – Dir: G. Donoso D.
33) Cobija, Pando – Dir: J. Landívar.
34) Sargento Maceda s/n, Sararenda, Camiri – DG: C. Velásquez.
35) Cas. 34, Tarija – Dir: J. Rollano M.
36) Cas. 697, Santa Cruz – DG: A. Ayala B.
37) Mattos 35, Potosí.
38) Cas. 526, Cochabamba – Dir: J. Christie L.
39) Cas. 3250, La Paz – Dir: A. Cajías C.
40) Cas. 508, Oruro.
41) Cas. 11, Trinidad, Beni – Dir: L. Soria M.
42) Cas. 5782, La Paz – DG: J. Gramunt S.
43) Cas. 155, Sucre – DG: J. Cabanach.
44) Cas. 546, Cochabamba – Gte: Padre H. Villegas.
45) Cas. 496, Oruro – Dir: J.M. de Irahola B.
46) Calle 18 de Noviembre, Trinidad, Beni.
47) Cas. 203, Santa Cruz – DG: D. Arteaga F.
48) Sucre – Dir: F. Esquivel A.
49) Cas. 19, Potosí – DG: L. Aramayo B.
50) Cas. 172, Tupiza, Tarija – Dir: M. Colque S.
51) Cas. 2532, La Paz – Dir: E. Costas S.
52) Cas. 58, Villazón, Tarija – Dir: G. Coca A.
53) Trinidad, Beni – Dir: E. Arroyo.
54) Cas. 839, Cochabamba – DG: J. Oropeza de los Ll.
55) Cas. 893, Cochabamba – Dir: Padre M. Comina.
56) Av. Saavedra, Subieta, La Paz.
57) Camari, Santa Cruz.
58) Vallegrande, Sta. Cruz.
59) Junín 472, Trinidad, Beni – DG: R. Saravia B.
60) Cas. 525, Oruro – Dir: A. Luján M.
61) Calle 24 de Septiembre, Sta. Cruz – Pte: J. Limpias J.
62) Cas. 2431, La Paz – Dir: R. Salmón.
63) Colón 671, La Paz – Dir: M.C. Dekúncar.
64) Cas. 1009, Cochabamba.
65) Av. J.M. Deheza, Villazón, Tarija – Dir: R. Flores R.
66) Villa Montes – Dir: J. Maldonado E.
67) San Borja, Beni – Dir: I. Viruez J.
68) Cochabamba – Dir: H. Peñarrieta.
69) Siglo XX, Potosí – Dir: Rvdo. P.G. Dicaire, O.M.I.
70) Caranavi, La Paz.
71) Plaza S. Francisco, La Paz.
73) Cas. 2803, Caranavi, La Paz – Dir: J. Suárez.
75) Cas. 1414, Viloco – Dir: R. Ochoa H.
76) Univ. Misael Sarac, Tarija.
77) Reyes, Beni – Dir: R. Arce S.
78) Camargo, Chuquisaca.
79) Alcaldía Municipal, Padilla, Chuquisaca – Dir: M. Amengual A.
80) Guayaramerín, Beni – Dir: G. Roca P.
81) Sta. Ana de Yacuma, Beni – Dir: F. Vaca Díez F.
82) Cas. 22, Guayaramerín, Beni – Dir: J.D. Saucedo P.
83) Cas. 9, Riberalta, Beni – Dir: M. Ruck.
84) Riberalta, Beni – Dir: F. Florida.
85) Dorvigni 34, Riberalta, Beni – Dir: R. Arias P.
88) Concepción, Sta. Cruz – DG: Padre L. Falch.
89) Oruro.
90) Chocaya, Potosí – Dir: V. Brito.
91) San Ignacio de Velasco, Sta. Cruz – DG: J.C. Rosenhammer.
92) Trinidad, Beni.
93) Chiquitos, Sta. Cruz.
94) Huanuni, Potosí.
95) Cas. 620, Oruro – Dir: O. Tórrez R.
96) Catavi, Potosí.
97) Cas. 125, Tarija – Dir: L. Arellano C.

NB: There is normally no delivery of letters in Bolivia (exc. La Paz), and recipients have to collect them from the P.O. Letters should therefore carry the casilla number where known.

The arrival of a new edition of the WRTH is always a greatly anticipated event each year.

BRAZIL

L.T: Eastern(Coastal): GMT–3h(Su: GMT–2h). Western: GMT–4h(Su: GMT–3h). Acre: GMT–3h(Su: GMT–4h) – **Pr.L:** Portuguese.

DEPARTAMENTO NACIONAL DE TELECOMUNICAÇÕES (DENTEL)

Ministério das Comunicações, Esplanada dos Ministério, Brasilia, 70000, DF. **Cable:** Dentel.
L.P: Dir.Gen: H.L. Orlandi.

ASSOCIAÇÃO BRASILEIRA DE EMISSORAS DE RÁDIO E TELEVISÃO (ABERT)

ADDR: Rua Paulino Fernandes 32, 4°andar, 20000 Rio de Janeiro. **Te:** 225-9914, 285-1074. **Cable:** Abertrio.
L.P: A.A. de Barros Nunes. Exec.Dir: R. Tavares.

ASSOCIACÃO INTERAMERICANA DE RADIODIF.

ADDR: Rua Mayrink Veiga 6, 20000 Rio de Janeiro.
L.P: J. Almeida Castro. Exec.Dir. of Central Office: R. Tavares.

DIARIOS E EMISSORAS ASSOCIADOS

ADDR: Internat. Rel. Dept, Rua Paulino Fernandes 78, 20000 Rio de Janeiro. **Te:** 266-1730. **Cable:** Silapress or Meridiano. **Telex:** 031-380.
L.P: Dir.Intern.Rel: Dr. José de Almeida Castro. Head Internat. Division: Miss Maria Porto.

N.B: All sts carry "A Voz do Brasil" at 2200-2315.

STATIONS: Mediumwaves
°=shortwave.

	Call	kHz	kW	Name, location and h. of tr.
1)	ZYD53	540	10/1	R. Dif. Fluminense, Niteroi
2)	ZYW44	540	10/1	R. Riviera, Goiânia
3)		540	5/0.25	R. Sto. Angelo, Santo Angelo
4)		540	1/0.25	R. Birigui, Birigui
5)	ZYH276	540	1/0.25	R. Real, Canoas
6)	PRG6	550	5/0.5	R. Mantigueira, Cruzeiro
7)	ZYC472	550	5/0.5	R. Estadual, Curitiba
8)	ZYF79	550	5/0.5	R. Cataguases, Cataguases: 0900-0300
9)	ZYD7	550	5/0.5	R. Sociade, Montes Claros
10)		560	10/1	R. Novo Mundo, São Paulo
11)	ZYH57	560	5/1	R. São Francisco, Caxias do Sul: 0800-0500
12)	ZYA73	560	5/1	R. Educ. Maranhão, São Luiz
13)	ZYC55	560	5/1	R. Jornal de Itabuna, Itabuna: 0900-0300
14)	ZYD4	560	1/0.5	R. Londrina, Londrina
15)	ZYE58	°570	5/1	R. Difusora, Taubaté: 0900-0300
16)		570	5/0.25	R. Eldorado, Cricumá
17)	ZYF	570	5/0.5	R. Pampulha, Belo Horizonte
18)	ZYF5	570	1/0.25	R. Passo Fundo, Passo Fundo
19)	ZYR209	580	5/0.25	R. Voz Agricola, Piracicaba
20)	ZYH51	580	5	R. Nossa Sra. Fátima, Vacaria
21)	ZYD71	°580	10/5	R. Relogio Federal, Rio de Janeiro: 24h
22)	ZYG44	°580	10/1	R. Educ. Rural, Campo Grande: 0800-0400
23)	ZYB44	580	20/10	R. Reporter, Recife: 0800-0600
24)	ZYE318	°590	5/1	R. Ribeirão Preto, Ribeirão Preto: 0800-0400
25)	ZYE343	590	5/0.25	R. Atlântica, Santos: 0900-0500
26)	ZYE352	590	10/1	R. Ouro Verde, Curitiba: 0900-0500
27)	ZYA1	°590	10	R. Dif. Roraima, Boa Vista
28)	ZYC29	590	20/5	R. Cruzeiro, Salvador: 24h
29)		590	1/0.25	R. Difusora, Patrocinio
30)	ZYH266	600	100	R. Farroupilha, Porto Alegre
31)	ZYF234	°610	10/1	R. Itatiaia, Nova Lima: 24h
32)	ZYE53	610	1/0.25	R. Liberdade, Guaratingeta
33)	PRH7	°620	50/100	R. Panamericana, São Paulo: 24h

	Call	kHz	kW	Name, location and h. of tr.
34)	ZYH250	620	5/0.25	R. Mirador, Rio do Sul: 0800-0300
35)		620	5/1	R. Pelotense, Pelotas
36)	ZYH35	°620	10	R. Asunção, Fortaleza: 0730-0330
37)		620	1/0.25	R. Fronteirado Sul, São Borja
38)	ZYE227	630	5/0.25	R. Difusora, Presidente Prudente
39)	ZYS47	630	5/0.5	R. Curitibana, Curitiba
40)	ZYH305	630	5/1	R. Sociadade, Santa Maria
41)	ZYD48	630	20/10	R. Metropolitano, Rio de Janeiro: 24h
42)	ZYX25	630	10/5	R. Bom Jesus, Cuiabá: 0930-0200
43)	PRJ6	630	10/1	R. Dif. Sergipe, Aracaju
44)	ZYF61	630	1/0.5	R. Difusora, Uberaba
45)	ZYH89	640	50/100	R. Difusora, Porto Alegre: 0800-0400
46)	ZYF65	640	25/5	R. Difusora, Goiânia
47)	ZYD40	640	5/1	R. Vitória, Vila Velha: 0800-0400
48)	ZYI22	640	1/0.25	R. Cabugi, Natal: 0800-0400
49)	ZYE81	640	1/0.25	R. Morada do Sul, Araraquara
50)		640	1/0.25	R. Auriverde, Londrina
51)	PRD66	650	5/0.25	R. Difusora, Piracicaba
52)	ZYJ29	650	5/1	R. Alto Piranhas, Cajazeiras: 0800-0300
53)	ZYE233	650	1/0.25	R. Andradina, Andradina
54)	ZYE50	°660	5/0.5	R. Clube, Ribeirão Preto: 1300-0400
55)	ZYE52	660	5/0.5	R. Tribuna, Santos: 24h
56)	ZYD57	660	5/1	R. Sociadade, Novo Friburgo
57)	ZYK26	660	5/1	R. Difusora, Limeiro: 0755-0200
58)	ZYE354	670	10/5	R. Iguassú, Curitiba
59)	ZYC37	°670	10/5	R. Cultura, Aracajú: 24h
60)	ZYF234	670	5/1	R. São Francisco, Anápolis: 0900-0300
61)	ZYE220	670	1/0.5	R. Convenção de Itú, Itú: 0800-0300
62)		670	1/0.25	R. São Gabriel, São Gabriel
63)	ZYH67	°680	50/5	R. Gaucha, Porto Alegre: 0800-0500
64)	ZYD38	°680	10/5	R. Copacabana, São Gonçalo: 0800-0440
65)	ZYX4	680	5/1	R. Cultura, Campo Grande
66)	ZYF34	°680	10/5	R. Dif. Maranhão, São Luiz: 0800-0400
67)	ZYD5	680	1/0.25	R. Difusora, Catanduva
68)	ZYR69	680	1/0.25	R. Dif. Piraju, Piraju
69)	ZYH63	690	5/0.5	R. Clube, Lages: 0800-0300
70)	ZYH287	690	5/0.25	R. Progresso, Ijui: 0800-0400
71)	PRC7	690	10/3	R. Mineira, Belo Horizonte
72)	ZYH296	°690	5/0.25	R. Dragão do Mar, Fortaleza: 24h
73)		690	5/0.25	R. Cultura, Ilheus
74)	ZYG2	690	1/0.25	R. Clube, Guaratingeta
75)	ZYR87	690	1/0.25	R. Pereira Barrato, Pereira Barrato
76)	ZYR91	690	1/0.25	R. Brasil, Santa Barbara d'Oeste
77)	ZYS44	°690	1/0.25	R. Dif. Londrina, Londrina: 0900-0300
78)	ZYE381	690	1/0.25	R. Dif. Ponta Grossa, Ponta Grossa
79)	ZYE47	700	5/500	R. Eldorado, São Paulo: 0900-0400
80)	ZYQ3	°700	10/5	R. Difusora, Teresina: 0800-0200
81)	ZYL22	710	5/1	R. Palmeira, Maceió: 0750-0300
82)	ZYH262	°720	100	R. Guaibá, Porto Alegre: 0830-0430
83)	ZYZ33	720	10/0.25	R. Carioca, Rio de Janeiro
84)	ZYB85	°720	100	R. Clube Pernambuco, Recife: 0800-0430
85)	ZYE80	730	5/0.25	R. Santos Dumont, Jundiai
86)	ZYE293	730	5/1	R. Dirceu, Marília: 0800-0400
87)	ZYH8	730	5/0.25	R. Marumbí, Campo Largo
88)	ZYH211	730	5/1	R. Planalto, Passo Fundo: 0900-0300
89)	ZYV53	730	5/1	R. Difusora, Juiz de Fora
90)	ZYB59	°730	10/5	R. Emiss. A. Voz do São Francisco, Petrolina: 0755-0200
91)	ZYO9	730	1/0.25	R. Tubã, Tubarão: 0900-0300
92)	ZYH95	°740	5/0.5	R. Diário da Manhã, Florianópolis: 0900-0400
93)	ZYX23	740	5/1	R. Clube, Dourados
94)	ZYC40	°740	100	R. Soc. da Bahia, Salvador: 0800-0400
95)	ZYB92	750	5/1	R. Cultura do Nordeste, Caruaru: 0800-0400
81)	ZYF32	760	5/0.25	R. Cultura, Belo Horizonte
96)	ZYD41	760	10/0.5	R. Federal, Niteroi
97)	ZYT42	760	1/0.25	R. Nereu Ramos, Blumenau: 0800-0400
98)	ZYH273	760	1/0.25	R. Princesa de Jacuí, Candelária
99)	ZYF41	770	5/0.5	R. Clube, Patos de Minas: 0900-0500
100)	ZYC28	770	10/5	R. Atalaia, Aracajú: 0800-0400
101)	ZYR261	770	1/0.25	R. Jornal do Povo, Limeira
102)	ZYR56	°780	50/10	R. Excelsior, São Paulo: 24h
103)	ZYB87	°780	50/10	R. Jornal do Comercio, Recife: 0830-0400
104)	ZYS80	780	1/0.5	R. Portavoz, Cianorte
105)		780	1/0.25	R. Difusora, Urussanga
106)		780	1/0.25	R. Carazinho, Carazinho
107)		780	1	R. Princesa do Jacui, Porto Alegre: 24h
108)	ZYF224	°780	1/0.25	R. Educadora, Uberlandia: 0800-0300
109)		800	10	R. Universidade, Santa Maria
110)	ZYD2	°800	100	R. MEC, Rio de Janeiro: 0900-0400
111)	ZYF249	800	50/10	R. Educadora, Brasilia: 0900-0400
112)	ZYE6	810	5/0.25	R. Jundiaiense, Jundiai
113)	ZYS54	820	10	R. Cultura, Foz de Iguaçu
114)	ZYF253	820	10/5	R. Jornal, Goiânia
115)	ZYK37	820	5/1	R. Universidade, Recife: 1500-0300
116)	ZYE61	820	1/0.25	R. Dif. Penápolis, Penápolis
117)	ZYE345	820	1/0.25	R. Universal, Santos
118)		820	1/0.25	R. Estrela, Estrela
119)	ZYE235	°820	5	R. Aparecida, Aparecida: 0900-0300
120)		820	1/0.25	R. Barbacena, Barbacena
121)	ZYA4	820	1/0.25	R. Dif. Paraiense, São Sebasteão do Paraiso
122)		820	1/0.25	R. Princesa do Atlântico, Macae
123)		830	1/0.25	R. Cultura Itabirito, Ouro Preto
124)	ZYB200	830	1/0.5	R. Educadora Rural, Caico: 0800-0300
125)	ZYE239	°840	50	R. Bandeirantes, São Paulo: 24h
126)	ZYH235	840	5/0.25	R. Rural, Concordia: 0900-0100
127)	ZYH323	840	5/1	R. Cultura, Gravatai
128)	ZYD	840	25/5	R. Excelsior, Salvador: 0830-0400
129)	ZYE409	840	1/0.25	R. Tabajara, Londrina
130)	PRF2	850	1/0.25	R. Clube Rio Claro, Rio Claro
131)		850	1/0.25	R. Difusora, Formiga
132)	ZYV64	°850	1/0.25	R. Por Um Mundo Melhor, Gov. Valadares
133)		850	1/0.25	R. Tupaciguara, Tupaciguara
134)		850	1/0.25	R. Emiss. Rio S. Francisco, Arapiraca
135)	ZYD68	860	100	R. Mundial, Rio de Janeiro: 24h
136)	ZYN28	870	5/0.25	R. Clube, Itabuna

	Call	kHz	kW	Name, location and h. of tr.
137)	PR13	°880	100	R. Inconfidencia, Belo Horizonte: 0800-0300
138)	PRA6	°890	10/5	R. Gazeta, São Paulo: 0800-0500
139)		890	5/0.25	R. Alegrite, Alegrite
140)	ZYF227	890	5/0.25	R. Difusora, Bento Gonçalves: 0900-0300
141)	ZYF245	890	50/1	R. Planalto, Brasilia
142)	ZYB88	°890	20/10	R. Tamandaré, Recife: 24h
143)	ZYH79	890	1/0.25	R. Emiss. Sta. Catarina, Florianópolis
144)		890	1/0.25	R. Cult. Rio Grande, Rio Grande
145)	PRI1	°900	5/0.25	R. A Voz do Sertão, Presidente Prudente
146)	ZYR242	900	5/0.25	R. Cultura, São José do Rio Preto
147)	ZYH212	900	2.5/0.5	R. Aratiba, Aratiba: 0900-0100
148)	ZYD73	°900	25/10	R. Tamoio, Rio de Janeiro: 24h
149)	ZYB74	900	10	R. Nordeste, Natal: 24h
150)	ZYE96	900	1/0.25	R. Santana, Ponta Grossa: 0900-0300
151)	ZYH220	900	1/0.25	R. Progresso, Novo Hamburgo
152)	ZYB48	910	5/1	R. Liberdade, Caruaru: 0800-0400
153)	ZYI26	920	1/0.25	R. Brejui, Currais Novos
154)	ZYE330	930	2.5/0.25	R. Cultura, São Vicente: 24h
155)	ZYE410	930	5/1	R. Cultura, Curitiba
156)	ZYH72	930	5/0.5	R. Caxias do Sul, Caxius do Sul
157)	PRJ3	930	5	R. Araguari, Araguari
158)	ZYM20	°930	10/5	R. Liberdade, Aracajú: 0700-0400
159)		930	1/0.25	R. Santa Fé, Santa Fé do Sul
160)	ZYR38	930	1/0.25	R. Clube Itapira, Itapira
161)	ZYE405	930	1/0.25	R. Clube, Rolândia
162)		930	1/0.25	R. Salamanca, Barbalha
163)	ZYD66	°940	100	R. Jornal do Brasil, Rio de Janeiro: 0900-0530
164)	ZYF55	950	10/5	R. Atalaia, Belo Horizonte
165)	ZYB45	°950	5/1	R. Educ. Nordeste, Sobral: 0900-0200
166)	ZYB39	950	1/0.25	R. Planalto, Carpina
167)	ZYE241	°960	50/5	R. Difusora, São Paulo: 24h
168)	ZYH303	960	5/0.25	R. Imembuí, Santa Maria: 0900-0400
169)	ZYO4	960	10	R. Dif. Alagoana, Maceió: 24h
170)	ZYE73	960	1/0.25	R. Dif. Maringá, Maringá
171)	ZYE54	°970	5/1	R. Alvorada, Londrina: 0800-0300
172)	ZYH216	970	20/1	R. Pampa, Porto Alegre: 24h
173)	ZYC33	°970	10/5	R. Feira de Santana, Feira de Santana: 0730-0430
174)	ZYJ6	970	1/0.25	R. Difusora, São João da Boa Vista
175)		970	1/0.25	R. Araguaia, Brusque
176)	ZYE283	970	1/0.25	R. Itapetininga, Itapetininga
177)		970	1/0.25	R. Sociedade, Caratinga
178)		970	1/0.25	R. São João del Rey, S. João del Rey
179)	ZYD70	980	100	R. Nacional, Rio de Janeiro: 0800-0335
180)	PRL8	°980	50/100	R. Nacional, Brasilia: 0300-0700
181)	ZYB43	990	5/1	R. Educ. Rural, Mossoró: 0700-0400
182)	ZYX7	990	1/0.25	R. Otoni Teofilo, Otoni Teofilo
83)	PRB9	°1000	100	R. Record, São Paulo: 24h
183)	ZYE44	1010	5/1	R. Celinauta, Pato Branco: 0900-0200
184)	PRB3	1010	5/0.5	R. Sociadade, Juiz de Fora: 0800-0300
185)	ZYN23	°1010	10/5	R. Bahia, Salvador: 0900-0400
186)	ZYR68	1010	1/0.25	R. Cult. Barretos, Barretos
187)	ZYE78	°1010	1/0.25	R. Educadora Limeira, Limeira: 0800-0500
188)	ZYE342	1010	1/0.25	R. Clube, Votorantim
189)	ZYU103	1010	1/0.25	R. Clube, Esteio
190)	ZYH	1010	1/0.25	R. Esmeralda, Vacaria
191)	ZYE42	1020	5/0.25	R. Colombo, Colombo: 0800-0300
192)	ZYF82	1020	5/0.25	R. Educadora, Cel Fabriciano
193)	ZYB206	°1020	5/1	R. Soc. Educ. Cariri, Crato: 0800-0300
194)	ZYB205	1020	1/0.25	R. Clube, Rio Largo
195)	ZYH64	1030	5	R. Princesa, Lagoa Formosa
196)	ZYD24	°1030	10/5	R. Continental, Rio de Janeiro: 0730-0400
197)	ZYK27	1030	10/5	R. Olinda, Olinda: 24h
198)	ZYE217	1030	1/0.25	R. Jauense, Jau
199)	ZYB3	°1030	1/0.25	R. Clube, Lins
200)	ZYH217	1030	1/0.25	R. Camaqua, Camaqua
201)	ZYW29	1030	1/0.25	R. Cultura, Anápolis
202)	PRG2	°1040	100	R. Tupí, São Paulo: 24h
203)	ZYD30	°1050	5/1	R. Capixaba, Vitória
204)	ZYB83	1050	5/1	R. Caturite, Campina Grande: 0800-0400
205)	ZYD57	1050	1/0.25	R. Cultura Angrense, Angra dos Reís
206)	ZYE308	1060	5/0.25	R. Educadora, Piracicaba
207)	ZYB78	°1060	5/1	R. Tapuió, Mossoró: 0855-0400
208)	ZYI5	1060	1/0.25	R. Itajuba, Itajuba
209)	ZYD34	1060	1/0.25	R. Imperial, Petrópolis
210)	ZYC35	°1060	1	R. Clube, Vitória da Conquista: 0900-0300
211)	ZYB81	1070	5/1	R. Cajazeiros, Cajazeiros
212)	ZYD250	1070	1/0.25	R. Difusora, Colatina: 0800-0300
213)	ZYR49	1080	5/0.25	R. Assunção, Jales: 0900-0300
214)	ZYE	1080	5/0.5	R. Clube, Sorocaba: 0900-0300
215)	ZYH100	1080	10/1	R. Universo, Porto Alegre: 1100-0300
216)	ZYT9	°1080	5/0.5	R. Industrial, Juiz de Fora
217)	ZYF	1080	50/5	R. Independencia, Brasilia: 24h
218)	ZYA58	1080	10/5	R. Guarujá, Belem: 0800-0300
219)	ZYB93	1080	5/0.5	R. Difusora, Caruaru
220)	ZYS78	1080	1/0.25	R. Cruzeiro do Sul, Cornelio Procopio
221)	ZYE542	1080	1/0.25	R. Clube, Ponta Grossa
222)		1080	1/0.25	R. Clube, Indaial
223)	ZYB70	1080	1/0.25	R. Iracema, Juazeiro do Norte
224)	ZYE292	°1090	5/0.5	R. Clube, Marilia: 0800-0400
225)	ZYH243	1090	5/0.25	R. Colon, Joinville
226)	ZYD64	1090	25/5	R. Rio de Janeiro, Rio de Janeiro: 0700-0300
227)	ZYI25	°1090	10/5	R. Educ. Rural, Natal: 0900-0300
228)	ZYR49	1090	1/0.25	R. Cultura, Monte Alto
229)	ZYE201	1090	1/0.25	R. Vicente Palotti, Cel. Vivida
230)		1090	1/0.25	R. Tabajara, Tubarão
231)	ZYH	1090	1/0.25	R. Cachoeira do Sul, Cachoeira
232)		1090	1/0.25	R. Erechim, Erechim
233)	ZYW38	1090	1/0.25	R. Independência, Goiânia
234)	PRG9	°1100	100	R. Globo, São Paulo: 24h
235)	PRI4	°1110	20/10	R. Tabajara, João Pessôa: 0730-0400
236)	ZYD55	°1110	5	R. Cultura, Campos
236a)	ZYE224	1110	1/0.25	R. Luz, Araçatuba
237)	ZYR24	1110	1/0.25	R. Ibitinga, Ibitinga
238)	ZYR26	1110	1/0.25	R. Cultura, Mogi Mirim
239)	ZYS57	1110	1/0.25	R. Paiquere, Londrina
240)	ZYS67	1110	1/0.25	R. Tapajé, São José dos Pinhais
241)		1110	1/0.25	R. Dif. Indio Conda, Chapeco
242)	ZYH88	1110	1/0.25	R. Anita Garibaldi, Florianópolis: 1100-0600

	Call	kHz	kW	Name, location and h. of tr.
243)		1110	1/0.25	R. Sobradinho, Sobradinho
244)	ZYF73	1110	1/0.25	R. Planalto, Araguary: 0900-0200
245)	ZYF223	1110	1	R. Orilândia, Nova Lima: 0900-0300
246)	ZYH223	1120	20/10	R. Continental, Porto Alegre: 24h
23)	ZYB96	1120	5/1	R. Paulista, Paulista: 24h
247)	ZYR223	1120	1/0.25	R. Emissora, Porto Feliz
248)	ZYE5	1120	1/0.25	R. Clube, São José dos Campos
249)	ZYH37	1120	1	R. Tupinamba, Sobral
250)	ZYH94	1130	5/1	R. Princesa d'Oeste, Xanxeré
251)		1130	5/1	R. Medianeira, Santa Maria
252)	ZYD63	°1130	100/10	R. Ipanema, Rio de Janeiro: 0900-0500
253)	ZYA53	1130	10	R. Marajoara, Belém: 0800-0400
254)	ZYR67	1130	1/0.25	R. Piratininga, Tubã: 0900-0300
255)	ZYS21	1130	1/0.25	R. Castro, Castro
185)	ZYC47	1140	20/10	R. Cultura da Bahia, Salvador: 0800-0400
256)	ZYE320	1140	1/0.25	R. Educação e Cultura, Rio Claro
257)	ZYE62	1140	1/0.25	R. Cacique, São Caetano do Sul
258)	ZYD2	1140	1/0.5	R. Sociedade, Muriae
259)	ZYF42	1150	20/5	R. Tirandentes, Belo Horizonte: 0800-0300
260)	ZYA51	°1150	10/5	R. Pioneira, Teresina
261)	PRI9	°1160	20/10	R. Espirito Santo, Vitória: 24h
262)	PRH3	°1160	10/5	R. A Voz d'Oeste, Cuiabá
263)	ZYH56	1160	5/1	R. Universidade Católica, Pelotas
264)	ZYR25	1160	1/0.25	R. Clube, Mococa
265)	ZYH7	1160	1/0.5	R. Pres. Wenceslau, Pres. Wenceslau
266)		1160	1/0.25	R. Cacique, Taubaté
267)	ZYS73	1160	1/0.25	R. Cultura, Votorantim
268)		1160	1/0.25	R. Clube, Londrina
269)	ZYH230	1160	1/0.25	R. Vale do Itajaí, Blumenau
270)		1160	1/0.25	R. Dif. Laguna, Laguna
271)		1160	1/0.25	R. Colmeia, Porto União
272)		1160	1/0.25	R. Miriam, Farroupilha
273)	PRF5	1160	1	R. Cariri, Campina Grande
274)	ZYE268	1170	10/5	R. Educadora, Campinas: 0800-0500
275)	ZYE347	1170	10/1	R. Atalaia, Curitiba
276)	ZYH202	1170	5/1	R. Difusora A Voz, Bagé: 0900-0400
277)	ZYI20	1170	5/1	R. Difusora, Mossoró: 0700-0400
278)	ZYU38	1170	1/0.25	R. Municipal, Passo Fundo
279)	ZYD62	1180	50/10	R. Eldorado, Rio de Janeiro: 0900-0500
280)	ZYF21	°1180	10/5	R. Ribamar, São Luiz: 0800-0355
281)	ZYI27	1190	10/1	R. Trairi, Natal: 0800-0400
282)	ZYN21	°1190	10/1	R. Juazeiro, Juazeiro: 0800-0300
283)	ZYE419	°1200	50/5	R. Cultura, São Paulo: 0900-0500
284)	ZYH281	1200	5/0.25	R. Dif. Rio Grande, Erechim: 0800-0300
285)	PRE9	°1200	10	R. Ceará R. Clube, Fortaleza: 0800-0400
286)	ZYF58	1210	50/5	R. Alvorada, Brasilia: 24h
287)	ZYR43	°1210	5/0.25	R. Cacique, Soroçaba
288)	ZYZ9	°1210	5/0.5	R. Universo, Curitiba: 24h
289)	ZYH280	1210	5/0.25	R. Caiçara, Esteio
290)	ZYU210	1210	5/1	R. São Miguel, Uruquaiano: 0800-0300
291)	ZYI9	1210	5/1	R. Cachoeira, Cachoeira do Itapemirim
292)	ZYC26	1210	5/1	R. Carioca, Feira de Santana: 0700-0300
293)		1210	1/0.25	R. Difusora, Araçatuba
294)	ZYE261	°1210	1/0.5	R. Clube, Bauru: 0800-0400
295)	PRG4	1210	1/0.25	R. Clube, Jaboticabal
296)	ZYT51	1210	1/0.25	R. Santa Catarina, Tubarão
297)	PRC6	1210	1/0.5	R. Difusora, Uberlândia
298)	ZYF225	°1210	1/0.5	R. Clube, Varginha: 1000-0100
299)	PRJ4	°1210	1	R. Educadora, Parnaíba: 0800-0230
300)	ZYB94	1210	1	R. Difusora, Garanhuns: 0800-0300
301)	PRE3	°1220	200	R. Globo, Rio de Janeiro: 24h
302)	ZYB55	1230	10/1	R. Correio, João Pessôa: 24h
303)		1230	5/0.25	R. Educ. do Rio Doce, Gov. Valadares
304)	ZYS8	°1230	5/1	R. Dif. Amazonas, Manaus
305)	ZYE344	1240	10/2.5	R. Clube, Santos
306)	ZYK36	1240	5	R. Capibaribe, Recife: 0900-0400
307)	ZYO3	1240	5/1	R. Chavantes, Ipameri: 0800-0200
308)	ZYR257	1240	1/0.25	R. Municipalista, Botucatu
309)		1240	1/0.25	R. Ibirubá, Ibirubá
310)		1240	1/0.25	R. Dif. Cultura, Santana do Livramento
311)	ZYL4	1240	1/0.25	R. Platina, Ituiutaba
312)		1240	1/0.25	R. Difusora, Alagoinhas
313)	ZYE208	1250	5/0.5	R. Difusora, Guarapuava: 0900-0200
314)	ZYH90	1250	5/0.25	R. Cultura, Joinville: 0700-0400
315)	ZYU76	1250	5/1	R. Tupanci, Pelotas: 0900-0300
316)	ZYF246	°1250	5	R. Difusora, Poços de Caldas: 0845-0300
317)		1250	5/0.25	R. Esperança, Estância
318)	ZYE84	1250	1/0.25	R. Matelândia, Matelândia
319)	ZYS39	1250	1/0.25	R. Emiss. Paranavai, Paranavai
320)		1250	1/0.25	R. Soc. Oeste Catarinense, Itapiranga
321)		1250	1/0.25	R. Dif. Caxias do Sul, Caxias
322)	ZYX21	1250	1/0.25	R. Difusora, Tres Lagoas
323)		1250	1/0.25	R. São Patricio, Ceres
324)	ZYA	°1250	1/0.25	R. Educação Rural, Coari
325)	ZYB66	1250	1	R. Educadora, Crateus
326)	ZYE245	1260	50/1	R. Mulher, São Paulo: 24h
327)	ZYH35	1260	10/1	R. Metropole, Canoas: 24h
328)	ZYB49	°1260	10/5	R. Gazeta de Alagoas, Maceió: 0755-0400
329)	ZYH58	1260	5/0.25	R. Blumenau, Blumenau: 0900-0400
330)	ZYG50	1260	5	R. Educadora, Guajara Mirim: 0830-0230
331)	ZYE347	1260	1/0.25	R. Atalaia, Londrina
332)	ZYH23	1260	1/0.25	R. Vale do Jaquaribe, Limoeiro do Norte
333)	ZYX9	°1270	50/10	R. Brasil Central, Goiânia: 24h
334)	ZYB5	°1270	10/1	R. Potí, Natal: 0800-0430
335)	ZYE379	1270	5/0.5	R. Tingui, Piraquara
336)	ZYV62	1270	5/0.25	R. Carijos, Cons. Lafayette: 0900-0300
337)	ZYR229	1270	2.5/0.5	R. Brasiliense, Ribeirão Preto
338)	ZYD	1270	2.5/0.5	R. Emiss. Continental, Campos
339)	ZYT31	1270	1/0.25	R. Herval d'Oeste, Herval d'Oeste: 0900-0200
340)	ZYR39	1270	1/0.25	R. Brasil, Valinhos: 0800-0400
341)	ZYS26	1270	1/0.25	R. Guairacá, Mandaguari
342)		1270	1/0.25	R. Anita Garibaldi, Laguna
343)		1270	1/0.25	R. Panambi, Panambi
344)		1270	1/0.25	R. São Lourenço, do Sul, São Lourenço
345)	ZYH318	1270	1/0.25	R. Venância Ayres, Venância Ayres
346)		°1270	1	R. Educadora Rural, Tefé
148)	ZYD74	1280	100	R. Tupí, Rio de Janeiro
347)	PRJ9	1290	10/5	R. Timbira, São Luiz: 0700-0500

	Call	kHz	kW	Name, location and h. of tr.
348)	ZYR263	1290	5/1	R. Independência, São José do Rio Preto: 0900-0500
349)	ZYJ3	°1290	5/0.5	R. Carajá, Anápolis: 0900-0300
350)	ZYA61	°1290	5/2.5	R. Rio Mar, Manaus: 0800-0400
351)		1290	1/0.25	R. Juritί, Paracatu
352)	ZYR217	1300	10/1	R. Jornal do São Paulo, São Paulo: 24h
353)	ZYB62	1300	10	R. Iracema, Fortaleza: 0800-0300
354)	ZYR84	1300	5/0.25	R. Caiuas, Presidente Prudente
355)	ZYH55	1300	5/0.25	R. Clube, Canoas
356)	ZYX22	°1300	5/1	R. Cultura, Cuiabá: 24h
357)	ZYS87	1300	1/0.25	R. Atalaia, Maringá
358)		1300	1/0.25	R. Vila Velha, Ponta Grossa
359)	ZYV76	1300	1/0.25	R. Cancela, Ituiutaba
360)	ZYB35	1310	5/1	R. Progresso, Juazeiro do Norte
361)		1310	5/0.25	R. Bahiana, Ilheus
362)	ZYE43	1320	5/1	R. Cruzeiro do Sul, Curitiba
363)	ZYH54	1320	5/1	R. Cultura, Pelotas
364)	ZYD58	°1320	5/1	R. Difusora, Petrópolis: 0900-0300
365)	ZYF64	°1320	5/1	R. Clube, Goiânia: 0800-0315
366)	ZYH22	1320	5/1	R. Iracema Irapuan, Sobral
367)	ZYE311	1320	1/0.25	R. Difusora, Pirassununga
368)	ZYE237	1320	1/0.25	R. Clube, Tubã
369)		1320	1/0.25	R. Vera Cruz, Horenzontina
370)	ZYE25	1330	25/5	R. Dif. Liberal, Belém: 24h
371)	PRC4	1330	5/0.5	R. Clube, Blumenau
373)	ZYH234	1330	5/0.25	R. Soc. Oeste Catarinense, Chapecó: 0845-0300
374)	ZYE265	1330	1/0.25	R. Bragança Paulista, Bragança Paulista: 0900-0300
375)	ZYE226	1330	1	R. Cultura, Ribeirão Preto
376)	ZYE75	1330	1/0.25	R. Jaguariaiva, Jaguariaiva
377)	ZYH280	1330	1/0.25	R. Upacaraí, Dom Pedrito
378)		1330	1/0.25	R. Independência, Lageado
379)	ZYB200	1330	1/0.25	R. Progresso, Maceió: 0800-0400
380)	ZYF66	1340	25/5	R. Guaraní, Belo Horizonte: 24h
381)	ZYH55	1340	10	R. Itaí, Porto Alegre: 24h
382)	ZYR251	1340	5/0.5	R. Metropolitana, Mogi das Cruzes
383)	ZYA52	°1340	5	R. Educ. São José, Macapá: 0800-0300
384)	ZYE254	°1340	1/0.5	R. Cultura, Araçatuba
385)	ZYS61	1340	1/0.25	R. Cultura, Arapongas
386)	ZYG9	1340	1/0.25	R. Rio Negro, Rio Negro
387)	ZYX20	°1340	1/0.25	R. Difusora, Aquidauana: 0830-0130
388)	ZYA63	°1340	1–	R. Difusora, Itaquatiara
389)	ZYB38	°1340	1	R. Borborema, Campina Grande: 0800-0430
390)		1350	5/0.25	R. Dif. Rondon, Marechal Candido Rondon
391)	PRH5	1350	5	R. Cultura, Poços de Caldas
392)	ZYP6	1350	1/0.25	R. Estadual, Canoïnhas
393)		1350	1/0.25	R. Vale do Itajaí, Itajaí
394)	ZYH213	1350	1	R. Tres Passos, Tres Passos
395)	ZYD42	°1360	25/10	R. Guanabara, Rio de Janeiro: 24h
396)	ZYW21	°1360	10/1	R. Anhanguera, Goiânia
397)	ZYH25	1360	10	R. Uirapurú, Fortaleza: 0800-0310
398)	ZYE276	1360	5/1	R. Cultura, Fernandópolis: 0900-0300
399)	ZYA2	1360	5/2	R. Difusora, Corumbá
400)	ZYE29	°1360	5	R. Educ. Rural, Santarem
401)		1360	1/0.25	R. Cerro Largo, Cerro Largo
402)	ZYH207	1360	1/0.25	R. Alvorada, Marau: 0900-0100
403)	ZYE353	1370	10/1	R. Independência, Curitiba
404)	ZYU85	1370	5/0.25	R. Guarantá, Santa Maria
405)	ZYC44	1370	5/1	R. Dif. Sul Bahiana, Itabuna: 0900-0300
406)	ZYE200	1370	1/0.25	R. Urubupungá, Andradina
407)	ZYE87	°1370	1/0.5	R. Cultura, Araraquara: 0800-0300
408)	ZYE234	1370	1/0.25	R. Clube Hertz, Franca
409)	ZYE328	1370	1/0.25	R. Piratininga, São José dos Campos
410)		1370	1/0.25	R. Colmeia, São Miguel d'Oeste
411)		1370	1/0.25	Emiss. Noroeste, Flores da Cunha
412)		1370	1/0.25	R. Difusora, Machado
413)	ZYF219	1370	1/0.25	R. Sociedade, Ubã: 1100-2300
414)		1370	1	R. Cultura, Teresina: 0900-0300
415)	ZYB207	1380	10/5	R. Continental, Recife: 0800-0400
416)	ZYD31	1380	5/1	R. Difusora, Campos: 0900-0300
417)	ZYA65	1380	5/1	R. Difusora, Parintins: 0900-0100
418)	ZYE207	1380	1/0.25	R. Difusora, Mogi Guaçu
419)	ZYE206	1380	1/0.25	R. Renascença, Ribeirão Preto
420)	ZYV79	1390	10/5	R. Jornal de Minas, Contagem
421)	ZYE376	1390	5/1	R. Cultura, Maringá: 0800-0500
422)	ZYU75	1390	5/0.5	R. Alta Taquari, Porto Alegre
423)	ZYD36	1390	5/0.5	R. Difusora, Cariacica: 0900-0400
424)	ZYD37	1390	5/0.5	R. Sul Fluminense, Barra Mansa: 0800-0300
425)	ZYE202	1390	1/0.25	R. Publicidade e Cultura, Campinas
426)	ZYR210	1390	1/0.25	R. Oceânia, Caraguatatuba
427)		1390	1/0.25	R. Diário da Manhã, Lages
428)	ZYV37	°1390	1/0.5	R. Soc. Triangulo, Uberabá: 0900-0300
429)	ZYA68	°1390	1/0.5	R. Educadora, Bragança: 0830-0200
430)	ZYB97	1390	1	R. Difusora, Pesqueira: 0855-0300
431)	ZYD72	°1400	25/5	R. Roquette Pinto, Rio de Janeiro: 0900-0300
432)	ZYZ6	1400	5/1	R. Rapinhares, Patos: 0830-0400
433)		1400	2.5/0.25	R. Cultura N.S. Belém, Guarapuava
434)	ZYW41	1400	2.5/1	R. Universidade Federal, Goiânia
435)	ZYE48	1400	1/0.25	R. Difusora, Lucélia
436)	ZYE59	1400	1/0.25	R. Progresso, São Carlos
437)	ZYE406	1400	1/0.25	R. Mater Ecclesias, São José do Rio Preto
438)	ZYS76	1400	1/0.25	R. Cruzeiro do Sul, Londrina
439)		1400	1/0.25	R. Entre Rios, Palmitos
440)	ZYH201	1400	1/0.25	R. Rural, Rio do Sul: 0800-0200
441)	PRE7	1410	20/5	R. América, São Paulo: 24h
442)	ZYH26	1410	10	R. Verde Mares, Fortaleza: 0800-0400
443)		1410	5/0.25	R. Minuano, Rio Grande
444)		1410	5/0.25	R. Santa Rosa, Santa Rosa
445)		1410	5/0.25	R. Itaperuna, Itaperuna
446)		1410	5/1	R. Clube, Corumbá
447)	ZYH319	1410	1/0.25	R. Veranense, Veranópolis: 0900-0200
448)		1410	1/0.25	R. Rural, Tupiciguara
449)	ZYN42	1410	1/0.25	R. Escola, São Gonçalo dos Campos
450)	ZYA66	°1420	10	R. Clube do Pará, Belém: 24h
451)	ZYS82	1420	5/0.25	R. Cultura, Umuarama
452)	ZYH92	1420	5/2.5	R. Guarujá, Florianópolis
453)	ZYH286	1420	5/0.25	R. Reporter, Ijui
454)	ZYF252	1420	5/0.25	R. Ibituruna, Gov. Valadares
455)	ZYB37	1420	5/1	R. Educ. Sampaio, Palmeira dos Indios: 0800-0400
456)	ZYN34	1420	5/0.25	R. Jornal, Ilheus
457)	ZYR71	1420	1/0.25	R. Progresso, Itatiba
458)	ZYR221	1420	1/0.25	R. Colorado, Jardinópolis

	Call	kHz	kW	Name, location and h. of tr.
459)	ZYR244	1420	1/0.25	R. Piratininga, Jau
460)	ZYE57	1420	1/0.25	R. Clube, Mirandópolis
461)	ZYR22	1420	1/0.25	R. Difusora, Monte Aprazivel
462)	ZYE210	1420	1/0.25	R. Cultura, Taubaté
463)	ZYE369	1420	1/0.25	R. Educação Rural, Jacarezinho
464)	ZYI4	1420	1/0.25	R. Imbiara, Araxa
465)		1420	1/0.25	R. Santa Cruz, Jequitinonha
466)	ZYF213	1420	1/0.25	R. João Nepomuceno, João Nepomuceno
467)		1420	1/0.25	R. Paranaíba, Itumbiara
468)	ZYE350	°1430	20/10	R. Clube Paranaense, Curitiba: 24h
469)		1430	5/1	R. Clube, Santarem
470)	ZYM21	1430	5/1	R. Jornal de Sergipe, Aracajú: 0850-0300
471)	ZYR46	1430	1/0.25	R. Transmissor, Serra Negra
472)		1430	1/0.25	R. Cultura, Cangussú
473)	ZYH344	1430	1/0.25	R. São Roque, Faxinal do Soturno
474)		1430	1/0.25	R. Clube, Guaxupe
475)		1430	1/0.25	R. Difusora, Nanuque
476)	ZYF218	1430	1/0.25	R. Educ. Trabalhista, Ubã
477)	ZYG35	°1430	1	R. Caiará, Porto Velho: 0930-0330
478)	ZYE88	1440	20/5	R. América, Rio de Janeiro: 24h
479)	ZYR216	1440	5/0.25	R. Terra Branca, Bauru
480)	ZYR238	1440	5/0.25	R. Comercial, Pres. Prudente
481)	ZYE67	1440	5/0.25	R. Colmeia, Cascavel
482)		1440	5/0.25	R. Santo Angelo, Santo Angelo
483)	ZYH20	1440	5/1	R. Araripe, Crato
484)	ZYT39	1440	1/0.25	R. Cultura, Campos Novos
485)	PRF6	°1440	1	R. Baré, Manaus
486)		1450	1/0.25	R. Difusora, Fernandópolis
487)	ZYZ6	1450	1/0.25	R. Difusora, Guararapes
488)	ZYR207	1450	1/0.25	R. Boa Nova, Guarulhos
489)	ZYR53	1450	1/0.25	R. Clube, Orlândia
490)	ZYE42	°1450	1/0.25	R. São Carlos, São Carlos: 0830-0300
491)	ZYE361	1450	1/0.25	R. Cambiuna, Bandeirantes
492)	ZYE371	1450	1/0.25	R. Educadora, Laranjeiras do Sul
493)	ZYS56	1450	1/0.25	R. Jornal, Maringá
494)		1450	1/0.25	R. Intregação d'Oeste, São José d'Oeste
495)		1450	1/0.25	R. Princesa do Sul, Caxias do Sul
496)		1450	1/0.5	R. Luz e Alegria, Frederico Westphalen
497)	ZYD51	1450	1/0.25	R. Comercio, Barra Mansa: 24h
498)		1450	1/0.25	R. Quixeramobim, Quixeramobim
499)	ZYE99	1460	1/0.25	R. A Voz de Catanduva, Catanduva
500)	ZYE98	1460	1/0.25	R. Cultura, Lorena
501)	ZYE232	1460	1/0.25	R. Clube, Oswaldo Cruz
502)	ZYS64	1460	1/0.25	R. Cultura, Apucarana
503)	ZYS23	1460	1/0.25	Ere Rádio, Goio
504)	ZYN2	1460	1/0.25	R. Difusora, Jacarezinho
505)	ZYC5	1460	1/0.25	R. Difusora, Paranagua
506)	ZYS34	1460	1/0.25	R. Central Paraná, Ponta Grossa
507)	ZYT48	1460	1/0.25	R. Coroado, Curitibanos: 0930-0130
508)		1460	1/0.25	R. Guarujá, Orleaños
509)		1460	1/0.25	R. Cultura, Bagé
510)		1460	1/0.25	R. Montenegro, Montenegro
511)		1460	1/0.25	R. Colonial, Tres de Maio
512)		1460	1/0.25	R. Charrua, Uruguaiana
513)		1460	1/0.25	R. Porto Novo, Alemparaíba
514)		1460	1/0.25	R. Cultura, Sete Lagoas
515)	ZYO26	1460	1/0.25	R. Difusora, Mimosa do Sul
516)	ZYW43	1460	1/0.25	R. Morrinhos, Morrinhos
517)	ZYD9	°1460	0.25	R. Dif. Acreana, Rio Branco: 1000-0500
518)	ZYE2	°1460	0.25	R. Difusora, Macapá
519)	ZYR208	1470	1/0.25	R. Cultura, Guairá: 0900-0300
520)	ZYR20	1470	1/0.25	R. Clube, Jacarei
521)	ZYR237	1470	1/0.25	R. Cultura, Jales
522)	ZYR262	1470	1/0.25	R. Primavera, Porto Ferreira
523)	ZYR42	1470	1/0.25	R. Vera Cruz, Marilia
524)	ZYS59	1470	1/0.25	R. Cultura, Paranavai
525)	ZYC5	v1470	1/0.25	R. Soc. Catarinense, Joaçaba
526)		1470	1/0.25	Emiss. São José, Mafra
527)	ZYH351	1470	1/0.5	R. Jornal Verdade, São José
528)		1470	1/0.25	R. Sarandi, Sarandi
529)		1470	1/0.25	R. Difusora, Ituiutaba
530)		1470	1/0.25	R. Clube, Tres Pontas
531)		1470	1/0.25	R. Técnica, Atibaia
532)	ZYR95	1480	1/0.25	R. Astorga, Astorga
533)	ZYS38	1480	1/0.25	R. Educadora, União da Vitória
534)	ZYS85	1480	1/0.25	R. 26 de Abril, Imarui
535)	ZYH241	1480	1/0.25	R. Difusora, Joinville
536)		1480	1/0.25	R. Difusora, Garibaldi
537)	ZYA5	1480	1/0.25	R. Tupancireta, Tupancireta
538)		1480	1/0.25	R. Dif. Sociedade, Frutal
539)		1480	1/0.25	R. Solimões, Nova Iguaçu
540)	ZYD47	1480	1/0.25	R. Voz da Caçula, Tres Lagoas
541)	ZYX26	1480	1/0.25	R. Educ. Rural, Fernandópolis
542)	ZYR266	1490	1/0.25	R. Difusora, Franca
543)	ZYR243	1490	1/0.25	R. Pirateninga, Lins
544)	ZYR246	1490	1/0.25	R. Clube, Santo Andre
545)	ZYR73	1490	1/0.25	R. Colmeia, Campo Mourão
546)	ZYS63	1490	1/0.25	R. Cornelio Procopio, Cornelio Procopio
547)	ZYR5	1490	1/0.25	R. Santa Felicidade, Curitiba
548)		1490	1/0.25	R. Difusora, Cruciuma
549)		1490	1/0.25	R. Cultura, Xaxim
550)		1490	1/0.25	R. Liberdade, Cangussú
551)		1490	1/0.25	R. Cristal, Soledade
552)		1490	1/0.25	R. Difusora, Rio Bonito: 0800-0300
553)	ZYD84	1490	1/0.25	R. Jaquaribe, Aracatí
554)	ZYH28	1490	1/0.25	R. Emiss. Rio São Francisco, Penedo: 0800-0200
555)	ZYB51	°1490	1/0.25	R. Cacique, Santos
556)		1500	1/0.25	R. Pajeu de Educadora Popular, Afogados da Ingazeira
557)	ZYK39	1500	1/0.25	R. Brasil, Adamantina
558)	ZYT2	1510	1/0.25	R. Bebedouros, Bebedouro
559)	ZYE204	1510	1/0.25	R. Bandeirantes, Cachoeira Paulista
560)	ZYR40	1510	1/0.25	R. Difusora, Mirassol
561)	ZYR45	1510	1/0.25	R. Arapongas, Arapongas
562)	ZYZ3	1510	1/0.25	R. Difusora, Cruzeiro d'Oeste
563)	ZYS55	1510	1/0.25	R. Cultural, Iratí
564)	ZYS56	1510	1/0.25	R. Soc. Centenário, Venceslau Bras
565)	ZYS52	1510	1/0.25	R. Jaraguá do Sul, Jaraguá
566)		1510	1/0.25	R. Dif. Sta. Catarinense, Lages
567)	ZYH340	1510	1/0.25	R. Clube, Curvelo
568)		1510	1/0.25	R. Cultura, João Monlevade
569)	ZYV72	1510	1/0.25	R. Sociedade, Passos
570)	ZYN4	1510	1/0.25	R. Sete Colinas, Uberaba
571)		1510	1/0.25	R. Educ. Caitaca, Campos
572)		1510	1/0.25	R. Teresópolis, Teresópolis
573)	ZYL2	1510	1/0.25	R. Difusora, Parnaíba
574)		1510	1/0.25	R. Cultura, Ceres
575)		1510	1/0.25	R. Difusora, Floriano
576)	ZYG20	1510	1/0.25	R. Iracema, Iguatú
577)		1510	1/0.25	R. Clube, Itapeva
578)		1520	1/0.25	R. Marabá, Mogi das Cruzes
579)	ZYI9	1520	1/0.25	R. Difusora, Olimpia
580)	ZYG8	1520	1/0.25	R. Pato Branco, Pato Branco
581)	ZYS90	1520	1/0.25	R. Cacanjuré, Caçador
582)		1520	1/0.25	R. Difusora, Imbituba
583)		1520	1/0.25	R. Tapense, Tapes
584)		1520	1/0.25	R. Correio da Serra, Barbacena
585)				

	Call	kHz	kW	Name, location and h. of tr.
586)		1520	1/0.25	R. Clube, Itauna
587)		1520	1/0.25	R. São Lourenço, São Lourenço
588)		1520	1/0.25	R. Educ. e Cultura, Uberlandia
589)	ZYD79	°1520	1/0.25	R. Clube, São João do Meriti: 0900-0400
590)		1520	1/0.25	R. Iracema, Maranguape
591)	ZYA9	1530	1/0.25	R. Difusora, Assis
592)	ZYE216	1530	1/0.25	R. Barretos, Barretos
593)	ZYE225	1530	1/0.25	R. Jornal, São Bernardo do Campo
594)	ZYR21	1530	1/0.25	R. Brasil, Tupí Paulista
595)	ZYE205	1530	1/0.25	R. Ipiroig, Ubatuba
596)	ZYS49	1530	1/0.25	R. Guaçu, Toledo
597)	ZYD3	1530	1/0.25	R. União da Vitória, União da Vitória
598)		1530	1/0.25	R. Difusora, Itajaí
599)		1530	1/0.25	R. Difusora, São Joaquim
600)		1530	1/0.25	R. Alta Cruz, Alta Cruz
601)		1530	1/0.25	R. Itaqui, Itaqui
602)	ZYV33	1530	1/0.25	R. Diamantina, Diamantina
603)		1530	1/0.25	R. Cultura, Dores do Indaia
604)	ZYF56	°1530	1/0.25	R. Difusora, Jataí: 0900-0200
605)		1530	1/0.25	R. Educ. Jaquaribe, Limoeiro do Norte
606)	ZYK29	1530	1/0.25	R. Bituri, Belo Jardim
607)	PRF8	1540	1/0.25	R. Emissora, Botucatu
608)		1540	1/0.25	R. Bom Jesus, Siqueira Campos
609)		1540	1/0.25	R. Osorio, Osorio
610)		1540	1/0.25	R. Palmeiras, Palmeiras das Missoēs
611)		1540	1/0.25	R. Difusora, Santiago
612)		1540	1/0.25	R. Clube, Bom Despacho
613)	ZYR216	1540	1/0.25	R. Clube, Tres Coraçoēs
614)	ZYD43	1540	1/0.25	R. Tres Rios, Tres Rios
615)		1540	1/0.25	R. Jornal de Inhumas, Inhumas
616)		1540	1/0.25	R. Valença, Valença
617)	ZYR29	1550	1/0.25	R. Cacique, Capivari
618)	ZYQ6	1550	1/0.25	R. Marconi, Paraguasu Paulista
619)	ZYE94	1550	1/0.25	R. São Joaquim da Barra, São Joaquim
620)	ZYP8	1550	1/0.25	R. Difusora, Apucarana
621)		1550	1/0.25	R. Colmeia, Francisco Beltrão
622)	ZYT3	1550	1/0.25	R. Ararangua, Ararangua
623)		1550	1/0.25	R. Clube, São João Batista
624)		1550	1/0.25	R. Cacique, Lagoa Vermelha
625)		1550	1/0.25	R. Marajá, Rosario do Sul
626)	ZYH53	1550	1/0.25	R. Guaira, Santa Rosa
627)		1550	1/0.25	R. Cultura, Divinópolis
628)		1550	1/0.25	R. Cultura, Visconde do Rio Branco
629)		1550	1/0.25	R. Campista Afonsina, Campos
630)	ZYN40	1550	1/0.25	R. Regional, Vitória da Conquista
631)	ZYL6	1560	1/0.25	R. Emissora, Campos do Jordão
632)	ZYE219	1560	1/0.25	R. Clube, Ourinhos
633)		1560	1/0.25	R. Colmeia, Capanema
634)		1560	1/0.25	R. Cultura, Itabirito
635)		1560	1/0.25	R. Cultura d'Oeste, Lavras
636)	ZYF222	1560	1/0.25	R. Leopoldina, Leopoldina
637)		1560	1/0.25	R. Sociedade, Manhuaçu
638)	ZYO45	1560	1/0.25	R. Siderurgia Nacional, Volta Redonda: 0745-0300
639)	ZYW39	1560	1/0.25	R. Alvorada, Rialma
640)		1560	1/0.25	R. Difusora, Rio Verde
641)		1570	1/0.25	R. Cultura, Assis
642)	ZYS3	1570	1/0.25	R. Avare, Avare
643)	ZYR86	1570	1/0.25	R. Junqueirópolis, Junqueirópolis
644)	ZYR82	1570	1/0.25	Emiss. ABC, Santo André
645)	ZYR271	1570	1/0.25	R. Nossa Senhora, Socorro
646)		1570	1/0.25	R. Atalaia, Guarapuava
647)	ZYS22	1570	1/0.25	R. Monte Alegre, Telemaco Borba
648)		1570	1/0.25	R. Rio Negrinho, Rio Negrinho
649)		1570	1/0.25	R. Videira, Videira
650)		1570	1/0.25	R. Caçapava do Sul, Caçapava
651)		1570	1/0.25	R. Marabá, Iraí
652)		1570	1/0.25	R. Cultura, Santa Votoria do Palmar
653)		1570	1/0.25	R. São Luiz Gonzaga, São Luiz Gonzaga
654)		1570	1/0.25	R. Cultura, Alfenas
655)		1570	1/0.25	R. Cultura, Uberlandia
656)		1570	1/0.25	R. Clube, Valença
657)		1580	1/0.25	R. França do Imperador, França
658)		1580	1/0.25	R. Alvorada, Santa Cruz Rio Prado
659)	ZYX6	1580	1/0.25	R. Antonense, Antonina
660)		1580	1/0.25	R. Mirador, Blumenau
661)		1580	1/0.25	R. Cultura, Gentilio Vargas
662)		1580	1/0.25	R. Julio de Castilhos, Julio de Castilhos
663)		1580	1/0.25	R. Clube, Passo Quatro
664)		1580	1/0.25	R. Caué, Pedro Leopoldo
665)		1580	1/0.25	R. Difusora, Itumbiara
666)		1580	1/0.25	R. Emiss. Rádio Vox, Muritiba
667)	ZYL3	1590	1/0.25	R. Clube, Garça
668)	ZYS27	1590	1/0.25	R. Cambijá, Araucária
669)	ZYS29	1590	1/0.25	R. Difusora, Santo Antonio da Platina
670)		1590	1/0.25	R. São Miquel, Porto Lucena
671)	ZYV39	°1590	1/0.25	R. Congonhas, Congonhas: 0900-0300
672)		1590	1/0.25	R. Cultura, Catalão
673)		1590	1/0.25	R. Alvorada, Formosa

Shortwaves: °=Inactive.

674)		2320	0.25	R. 8 de Setembro, Descalvado
388)	ZYA37	2340	1	R. Dif. Itacoatiara: 1000-0100
187)	ZYE78	2380	0.25	R. Educ. de Limeira: 0800-0500
383)	ZYZ30	2400	1	R. Educ. São José, Macapá: 0830-0200
490)	ZYE253	2420	0.25	R. São Carlos: 0830-0300
349)	ZYW32	2420	1	R. Carajá, Anápolis: 0930-0300
384)	ZYR231	2450	1	R. Cult. de Araçatuba: irr
287)	ZYE333	2460	1	R. Cacique de Soroçaba: irr
604)	ZYF56	2470	1	R. Difusora, Jatai: 0900-0200
324)	ZYA	2490	0.25	R. Educ. Rural, Coari
24)	ZYE318	3205	5	R. Ribeirão Preto: 0800-0400
199)	ZYR248	3225	0.5	Lins R. Clube, Lins: 0800-0200
224)	ZYE292	3235	0.5	R. Clube, Marilia: 0800-0400
132)	ZYV71	*3235	1	R. Por Um Mundo Melhor, Gov. Valadares (F.Pl: move to 4805)
298)	ZYV225	3245	1	R. Clube, Varginha: 1000-0100
193)	ZYB206	3255	1	R. Educ. de Cariri, Crato: 0800-0300
297)	ZYV30	3255	1	R. Difusora, Uberlândia: 0900-0335
142)	ZYB88	3265	1	R. Tamandaré, Recife
391)	ZYV50	3265	1	R. Cultura, Poços de Caldas: 0800-0400
294)	ZYE261	3275	1	Bauru R. Clube, Bauru: 0800-0400
197)	ZYK27	v3285	1	R. Olinda, Pernambuco: 24h
207)	ZYI24	3295	1	R. Tapuió, Mossoró: irr
589)	ZYD70	3305	2.5	R. Clube do Grande Rio, São João de Meriti: 0900-0400
36)	ZYH35	3315	2.5	R. Asunção, Fortaleza: 2100-0300
328)	ZYL26	v3315	1	R. Gazeta de Alagoas, Maceió: 0800-0400

	Call	kHz	kW	Name, location and h. of tr.
210)	ZYC50	3335	2.5	R. Clube da Conquista, Vitória: 0900-0300
227)	ZYI25	3335	1	R. Educ. Rural, Natal: 2100-0300
108)	ZYF224	3345	5	R. Educadora, Uberlândia: 0800-0300
50)	ZYM22	3345	2.5/10	R. Cult. de Sergipe, Aracajú: 0730-0400
216)	ZYV32	3355	2.5	R. Industrial, Juiz de Fora
299)	ZYE7	3365	0.5	R. Educadora, Parnaíba: 0800-0100
407)	ZYE87	3365	1	R. Cultura, Araraquara: 0800-0300
294)	ZYE261	r3375	1	Bauru R. Clube, Bauru: 0800-0400
671)	ZYF37	3385	2.5	R. Congonhas: 0900-0300
346)		3385	1	R. Educadora, Têfe: 0900-0230
282)	ZYN21	3385	2.5	R. Juazeiro, Juazeiro: 0800-0300
675)		v3405	1	R. Xapuri, Xapurí: 0800-0300 (r3411kHz)
676)		r4115		R. Difusora, Cruzeiro do Sul
158)		r4735		R. Libertad de Sergipe, Aracajú: irr
66)	ZYF23	4755	5	R. Difusora do Maranhão, São Luiz: 0800-0300
22)	ZYX40	4755	10/25	R. Educ. Rural, Campo Grande: 0900-0400
400)	ZYA69	v4765	10	R. Emiss. Rural, Santarem: 0830-0400
261)	ZYO28	4765	2.5/5	R. Espirito Santo, Vitória: 0800-2100
262)	ZYZ5	4775	1.5	R. A Voz do Oeste, Cuaibá: 1000-0200
477)	ZYG35	4780	10	R. Caiari, Porto Velho: 0930-0330
280)	ZYM8	4785	5	R. Ribamar, São Luiz: 1100-0400
340)	ZYY3	4785	1/5	R.Brasil,Campinas0800-0400
235)	PRI4	4795	1	R. Tabajará, João Pessoa: 0730-0400
387)	ZYX30	4795	1/5	R. Dif. de Aquidauana: 0830-0130
31)	ZYF47	4805	10/25	R. Itatiaia, Belo Horizonte: 0800-2200
304)	ZYS8	v4805	10	R. Dif. do Amazonas, Manaus: 2200-0400
77)	ZYS45	4815	10	R. Dif. do Paraná, Londrina: 0900-0300
364)	ZYD58	4825	10	R. Difusora, Petrópolis: 0900-2100
429)	ZYE23	4825	5	R. Educadora, Brangança: 0800-0200
27)	ZYA1	v4835	10	R. Dif. Roraima, Boa Vista: 1100-0300
80)	ZYU8	4835	1	R. Difusora, Teresina: 0700-0400
677)		*4835	5	R. TV Brasil Oeste, Corumbá
450)	PRC5	4855	10	R. Clube do Pará, Belem: 0800-0500
173)	ZYN37	4865	1/5	R. Sociedad, Feira de Santana: 0730-0400
163)	ZYD66	4875	10	R. Jornal do Brasil, Rio: 0900-0530
517)	ZYD9	4885	5	R. Dif. Acreana, Rio Branco: 0900-0500
142)	ZYB88	r4885	1	R. Tamandaré, Recife
485)	PRF8	4895	5	R. Baré, Manaus: 0900-0420
185)	ZYN22	4895	10	R. Bahia, Salvador: 0900-0400
21)	ZYD71	4905	5	R. Relogio Federal, Rio: 0800-0300
555)	ZYB51	v4915	1	R. Emiss. Rio São Francisco, Penedo: 0800-2100
518)	ZYE2	4915	10	R. Difusora, Macapá: 0800-0300
396)	ZYW22	4915	10	R. Anhanguera, Goiânia: 0900-0400
72)	ZYH23	4925	1/5	R. Dragão do Mar, Fortaleza: irr
15)	ZYR61	4925	1/5	R. Difusora, Taubaté: 0830-0300
203)	ZYO25	4935	1	R. Capixaba, Vitória: 1030-2200
678)	ZYF22	*4935	1	R. Dif. Mearim, Caxias
679)		*4935	5	R. Sompur, Manaus
316)	ZYF208	4945	5	R. Difusora, Poços de Caldas: 0800-0300
90)	ZYB59	v4945	2	R. Emiss. Rural, Petrolina: 0900-0200
236)	PRF7	v4955	2	R. Cultura, Campos: 0830-0230
334)	ZYI21	4965	1	R. Potí, Natal: 0800-0430
428)	ZYV37	4965	5	R. Triangulo Mineiro, Uberabá: 0800-0300
347)	ZYY9	4975	2.5	R. Timbira, São Luiz: 0700-0430
333)	ZYX2	4985	5	R. Brasil Central, Goiânia: 24h
64)	ZYD39	v5015	1	R. Copacabana, Rio de Janeiro: 0800-0430
260)	ZYG26	5015	1	R. Pioneira, Teresina: 0800-0330
356)	ZYX24	5015	5	R. Cultura, Cuaibá: 24h
389)	ZYJ21	v5025	1	R. Borborema, Campina Grande: 0830-0500
47)	ZYO23	5025	1	R. Vitória, Vila Velha: 0800-0500
119)	ZYE236	5035	1	R. Aparecida: 0900-0300
145)	ZYE63	5045	0.5	R. Difusora, Presidente Prudente: 0800-0300
680)		*5045	10	R. Educativa do Pará, Belem
165)	ZYV32	5055	1	R. Iracema/Educ., Sobral
395)	ZYD64	5055	1	R. Guanabara/Quitandinha, Rio de Janeiro: irr
138)	ZYE226	5955	7.5	R. Gazeta, São Paulo: 0730-0500
82)	ZYU60	5965	7.5	R. Guaiba, Porto Alegre: 1800-0100
452)	ZYH91	5975	10	R. Guarujá, Florianópolis: 0900-0300
110)	ZYD5	5990	10	R. MEC, Rio de Janeiro: 0900-0400
137)	PRK5	6000	25	R. Inconfidência, Belo Horizonte: 0800-0300
84)	ZYB85	6015	10	R. Clube de Pernambuco, Recife: 0900-0300
301)	ZYV65	6035	10	R. Globo, Rio de Janeiro: 0800-2400
468)	ZYS33	v6045	25	R. Clube Paranaense, Curitiba: 0800-0300
33)	PRB21	6055	7.5	R. Panamericana, São Paulo: 0800-0300
681)	ZYZ31	6055	7.5	R. Rural Brasileira, Rio de Janeiro: 0900-2335
180)	PRL8	6065	1	R. Nacional, Brasilia: 0900-0300
103)	ZYB87	6085	15	R. Jornal do Comercio, Recife: 1600-0100
167)	ZYB7	6095	1.5	R. Dif. São Paulo: 0900-0300
285)	ZYN6	6105	5	Ceará R. Clube, Fortaleza: 1600-1900
234)	ZYR233	6125	10	R. Nacional, São Paulo: 0800-0500
63)	PRC21	6135	7.5	R. Gaucha, Porto Alegre: 0800-0500
185)	ZYN30	6155	10	R. Cultura da Bahia: 0800-2000
283)	ZYE419	6165	10	R. Cultura, São Paulo: 1000-0300
380)	ZYV74	6175	10	R. Guarani, Belo Horizonte: 0800-0400
125)	ZYE239	6185	10	R. Bandeirantes, São Paulo: 0800-0300
196)	ZYD24	6195	7.5	R. Continental, Rio de Janeiro: 0900-1900, 2100-0300
33)	PRB22	9505	7.5	R. Record, São Paulo: 0900-2100
431)	ZYD72	9515	1	R. Roquete Pinto, Rio de Janeiro: 1500-2400

	Call	kHz	kW	Name, location and h. of tr.
288)	ZYZ43	9545	7.5	R. Universo, Curitiba: 0800-2100
102)	ZYR234	9585	10	R. Excelsior, São Paulo: 24h
185)	ZYN29	v9595	1	R. Cultura da Bahia: 0900-0200
180)	PRL8	9605	250	R. Nacional, Brasilia: 2100-2230
119)	ZYE236	9635	10	R. Aparecida: 0900-0300
125)	ZYV40	9645	7.5	R. Bandeirantes, São Paulo: 0900-0300
180)	PRL8	9665	10	R. Nacional, Brasilia: 0900-0300
92)	ZYT29	9675	10	R. Diario da Manhã, Florianópolis: 0800-0300
138)	ZYE227	9585	7.5	R. Gazeta, São Paulo: 2200-0400
350)	ZYA61	9595	7.5	R. Rio Mar, Manaus: 1200-0100
252)	ZYZ24	9705	7.5	R. Ipanema, Rio de Janeiro: 0900-2200, 0100-0500
283)	ZYE419	9745	7.5	R. Cultura, São Paulo: 1000-0300
333)	ZYW23	9755	7.5	R. Brasil Central, Goiânia: 0800-0500
180)	PRL8	11720	10	R. Nacional, Brasilia: 1900-2200
365)	ZYF64	11735	1	R. Clube, Goiânia: 1000-0400
202)	ZYB8	11765	10	R. Tupí, São Paulo: 0900-0300
180)	PRL8	11780	250	R. Nacional, Brasilia: 2100-2230
82)	ZYU61	11785	7.5	R. Guaibá: 2100-0400
301)	ZYZ65	11805	10	R. Globo, Rio de Janeiro: 0800-2400
333)	ZYW24	11815	7.5	R. Brasil Central, Goiânia: 1000-0400
84)	ZYB85	11865	1	R. Clube de Pernambuco: 0800-0430
94)	ZYC40	11875	10	R. Soc. da Bahia, Salvador: 1700-0300
252)	ZYZ25	11885	7.5	R. Ipanema, Rio de Janeiro: 0800-1900
63)	PRC23	11915	10	R. Gaucha, Porto Alegre: 0800-0500
125)	ZYE239	11925	10	R. Bandeirantes, São Paulo: 2100-0530
468)	ZYS35	v11935	25	R. Clube Paranaense: 1200-2400
110)	ZYD3	11950	10	R. MEC, Rio de Janeiro: 0900-0400
33)	PRB24	11965	7.5	R. Panamericana, São Paulo: 0900-0300
94)	ZYC40	15125	10	R. Soc. da Bahia, Salvador: 0800-0400
33)	PRB22	15135	7.5	R. Record, São Paulo: irr
103)	ZYB87	15145	10	R. Jornal do Comercio, Recife: 1600-0100
202)	ZYB9	15155	10	R. Tupí, São Paulo
285)	ZYN6	r15167	5	Ceará R. Clube, Fortaleza
137)	PRK9	15190	5	R. Inconfidência, Belo Horizonte: 0900-0300
347)	ZYY9	15215	2.5	R. Timbira, São Luiz
180)	PRL8	15245	250	R. Nacional, Brasilia
102)	ZYE235	15265	50	R. Excelsior, São Paulo: 24h
138)	ZYE228	15325	5	R. Gazeta, São Paulo: 0800-0500
54)	ZYE50	15415	1	R. Clube, Ribeirão Preto: 1300-0400
180)	PRL8	15445	10	R. Nacional, Brasilia: 0900-0300
283)	ZYE419	17815	1	R. Cultura, São Paulo: 1000-0300

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State Abbreviations: AC=Acre; Al=Alagoas; AM=Amazonas; BA=Bahia; CE=Ceará; DF=Distrito Federal; ES=Espirito Santo; GO=Goiâs; MA=Maranhão; MG=Minas Gerais; MT=Mato Grosso; PA=Para; PB=Paraíba; PE=Pernambuco; OI=Piaui; PR=Paraná; RJ=Rio de Janeiro; RN=Rio Grande do Norte; RS=Rio Grande do Sul; SC=Santa Catarina; SE=Sergipe; SP=São Paulo.

Territories: AP=Amapa; FN=Fernando de Noronha; RO=Rondônia; RR=Roraima.

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111) Esplanada dos Ministérios, Bloco 1, 70000 Brasilia, DF – DG: E. Luiz Vienna.
112) Rua Barão de Jundiai 1041, 13200 Jundiai, SP.
113) Rua Dom Pedro II s/n, 85890 Foz de Iguaçu, PR.
114) Rua 24 No. 20, 74000 Goiânia, GO.
115) C.P. 1076, 50000 Recife, PE – Dir: W. Pereira A.
116) Rua Anchieta 154, 2andar, 16300 Penápolis, SP.
117) Av. Ana Costa 54, 11100 Santos, SP.
118) Praça Benjamin Constant s/n, 95880 Estrela, RS.
119) Av. Getulio Vargas 185, 12570 Aparecida, SP – DG: Padre Orlando Gambi.
120) Praça Pedro Teixeira 49, 36200 Barbacena, MG.
121) Rua P. de Padua 1237, 37950 São Sebastião do Paraíso, MG.
122) Rua Teixeira de Gouveia 431, 12870 Macae, RJ.
124) Av. Otávio Lamartine 603, 59300 Caicó, RN.
125) C.P. 372, 01000 São Paulo, SP – DG: J.J. Saad.
126) C.P. 11, 89700 Condôrdia, SC – Dir: A.S. Müller.
127) Cel. Vicente 451, 90000 Porto Alegre, RS.
128) Praça da Se 26/28, 40000 Salvador, BA.
129) Av. Paraná 437, 86100 Londrina, PR.
130) Treis 1423, 13500 Rio Claro, SP.
131) Rua Barão de Piumhi 31, 37290 Formiga, MG.
132) Av. Brasil 2770, 2andar, 35100 Governador Valadares, MG – Dir: O. Lagares A.
133) Rua Coronel Joaquim Mendes 19, 38430 Tupaciguara, MG.
135) Rua do Russel 434, Gloria 20000 Rio de Janeiro, RJ – DG: R. Ireneu M.
136) Av. Juarez Tavora s/n, 45600 Itabuna, BA.
137) C.P. 1027, 30000 Belo Horizonte, MG – Dir: N. Dias da Matta.
138) Av. Paulista 900, 5andar, 01399 São Paulo, SP – DG: M.A. Rodriguez. Mgr: L. Francfort.
139) Praça Oswaldo Aranha 39, 97540 Alegrite, RS.
140) C.P. 72, 95700 Bento Gonçalves, RS – DG: H. Manica.
141) Av. W-3, R17, 70000 Brasilia, DF.
142) Av. Cruz Cabugá 394, 50000 Recife, PE – DG: J.C. Poncel Neto.
143) Rua Felipe Schmidt 25, 88000 Florianópolis, RS.
144) Av. Silva Paes 363A, 96200 Rio Grande, RS.
145) C.P. 5, 19100 Presidente Prudente, SP – DG: A. Campos S.
146) Rua Siguira Campos 2087, 15100 São José do Rio Preto, SP.
147) Rua 15 de Noviembro 336, 99770 Aratiba, RS – Dir: M. Coguetto.
148) Av. Venezuela 43, 20000 Rio de Janeiro, RF – Mgr: A. Filho.
149) C.P. 625, 59000 Natal, RN – Dir: F. Rodrigues.
150) C.P. 688, 84100 Ponta Grossa, PR – Dir: H. Oliveira L.
151) Av. Pedro Adams Filho 5538, 93300 Novo Hamburgo, RS.
152) Rua de Conceição 16, 55100 Caruaru, PE – Dir: J. de Lacerda.
153) Pres. João Pessóa 26, 59380 Currais Novos, RN.
154) Rua Riachuelo 66, 11300 São Vicente, SP.
155) J. Loureiro 464, 80000 Curitiba, PR.
156) Rua Garibaldi 789, 21andar, 95100 Caxias do Sul, RS.
157) Brasil Acioli 28, 38440 Araguarí, MG.
158) Rua Itabaianinha 162, 49000 Aracajú, SE.
159) Rua Sete 1047, 15777 Santa Fe do Sul, SP.
160) Rua Comendador João Cintra 150, 13970 Itapira, SP.
161) Av. Expedicionário 238, 86600 Rolândia, PR.
162) Praça Figueira Sampaio 32, 83186, Barbalha, CE.
163) Av. Brasil 500, 20000 Rio de Janeiro, RJ – Dir: C. Lemos.
164) Rua Rio de Janeiro 243, 30000 Belo Horizonte, MG – Dir: Francisca M. Barros Barroso.
165) Av. Dom José 947, 62190 Sobral, CE – Dir: E. Rodrigues A.
167) C.P. 252, 01000 São Paulo, SP – Mgr: J. Candido.
168) Rua Venâncio Aires 1980, 97100 Santa Maria, RS – Mgr: A. Abelin.
169) Av. Fernandes Lima 1047, Farol, 57000 Maceió, AL – Dir: S. Ribeiro S.
170) Rua Getulio Vargas 173, 2andar, 87100 Maringá, PR.
171) Rua Souza Naves 9, 86100 Londrina, PR – Mgr: E. Afonso.
172) Av. Octávio Rocha 115, 90000 Porto Alegre, RD – Dir: O. Dumit Gadret.
173) C.P. 32, 44100 Feira de Santana, BA – DG: F.A. Bezerra.
174) Praça Prof. Roque Fiori 18, 13870 São João da Boa Vista, SP.
175) Av. Consul Carlos Renaux 63, 88350 Brusque, SC.
176) Rua Quintino Bocaiuva 720, 18200 Itapetininga, SP.
177) Rua dos Viajantes 81, 35300 Caratinga, MG.
178) Av. Tirandentes 209/219, 36300 São João del Rei, MG.
179) Praça Mauá 7, 20andar, 20000 Rio de Janeiro, RJ – DG: P. Batista P. Mgr: C. C. de Oliveira.

180) C.P. 07/0173, 70000 Brasilia, DF – Gen.Mgr: J.B. Cavalcanti M. Int.Sce.Mgr: J.M. de Carvalho. Dir.Tec: N. Purper L. – **D.Prgr:** Portuguese, 1900, German 2000, English 2100 on 9605/11780/15245kHz. Comm.Sce: 0800-0300 on 6065/9665/11720/15445kHz.
181) Praça Vigário Antônio Joaquim 39, 59600 Mossoró, RN – Mgr: E. Jussier C.
182) Rua Manuel Martiniano 77, 39800 Teófilo Otoni, MG.
183) C.P. 3, 85500 Pato Branco, PR – Mgr: H. del Olivo.
184) C.P. 353, 36100 Juiz de Fora, MG – DG: J.O. Alkmin H.
185) Av. Euclides da Cunha 10, 40000 Salvador, BA – DG: E.S. de Almeida.
186) Rua 14 No. 407, 14780 Barretos, SP.
187) C.P. 105, 13480 Limeira, SP – Dir: V. Bortolan F.
188) Rua Amazonas 889, 18110 Votorantim, SP.
189) Estrada de Gravataí 4900, 93250 Esteio, RS.
190) Praça Daltro Filho 1057, 95200 Vacaria, RS.
191) C.P. 222, 80000 Curitiba, PR – DG: G. Cadamuro.
192) Rua Eusébio de Brito 81, 35170 Cel. Fabriciano, MG – Dir: Q. de Souza Borges.
193) C.P. 57, 63100 Crato, CE – Mgr: G. Farias F.
194) Av. Getúlio Vargas 111, 57100 Rio Largo, AL.
195) Rua Eripides Ribeiro 739, 38720 Lagoa Formosa, MG.
196) Rua da Lapa 200, 20000 Rio de Janeiro, RJ – DG: W. Luiz.
197) Rua de S. Francisco 162, 53000 Olinda, PE – DG: P. de Paula Souza.
198) Rua Tenente Lopes 191, 17200 Jau, SP.
199) Rua Luiz Gama 492, 16400 Lins, SP – Dir: A. Zago.
200) Rua General Neto, 96180 Camagua, RS.
201) Av. Goias 611, 77100 Anápolis, GO.
202) Av. Alfonso Bovero 52, 01099 São Paulo, SP.
203) Rua do Cruzeiro, 29000 Vitória, ES.
204) C.P. 134, 58100 Campina Grande, PB – Dir: José Cursino de Siqueira.
205) Rua do Comércio 143, 27300 Andra dos Reis, RJ.
206) Rua São José 860, 13400 Piracicaba, SP.
207) C.P. 60, 59600 Mossoró, RN – Dir: J. Arimateia de Lima.
208) Rua Américo de Oliveira 176, 37500 Itajuba, MG.
209) Rua Marechal Deodoro 192, 25600 Petrópolis, RJ.
210) Praça Barão do Rio Branco 42, 45100 Vitória da Conquista, BA – Mgr: A. Ribeiro N.
211) Rua Cel. Juvencio Carneiro 160, 58900 Cajazeiros, PB.
212) C.P. 178, 29700 Colatina, ES – DG: G. Pereira.
213) C.P. 109, 15700 Jales, SP – DG: J. Peres M.
214) C.P. 565, 18100 Sorocaba, SP – Dir: G. Lima N.
215) Rua Sarmento Leite 426, 90000 Porto Alegre, RS – Dir: V. Derenji.
216) C.P. 262, 36100 Juiz de Fora, MG – DG: Dr. S.N. Mendes.
217) SQS 109 lotes 26 e 27, 70000 Brasilia, DF.
218) Travessa Frutuoso Guimarães 348, 66000 Belém, PA – Dir: O. Torres A.
219) C.P. 111, 55100 Caruaru, PE.
220) Praça Brasil 151, 86300 Cornelio Procopio, PR.
221) C.P. 114, 84100 Ponta Grossa, PR.
222) Rua Amadeu da Luz s/n, 89130 Indaial, SC.
223) Santa Luzia 391, 63180 Juazeiro do Norte, CE.
224) C.P. 326, 17500 Marília, SP – Mgr: O. Lignelli.
225) C.P. 25, 89200 Joinville, SC.
226) Av. Rio Branco 277, 20000 Rio de Janeiro, RJ – DG: G. de Aquino. Mgr: O. Forin.
227) Praça Pio X 335, 59000 Natal, RN.
228) Rua Jeremias de Paula Eduardo 916, 15910 Monte Alto, SP.
229) Rua das Americas s/n, 85550 Cel. Vivida, PR.
230) Rua Marechal Deodoro 361, 88700 Tubarão, SC.
231) Rua Ramiro Barcelos 258, 96500 Cachoeira do Sul, RS.
232) Av. Mauricio Cardoso 88, 99700 Erechim, RS.
233) Rua 08 No. 41, 74000 Goiânia, GO.
234) Rua das Palmeiras 322, 01226 São Paulo, SP – DG: F. Abreu.
235) Rua Rodriguez da Aquino 38, 58000 João Pessoa, PB – Dir: Roberto Guedes C.
236) C.P. 79, 28100 Campos, RJ – DG: M.F. Sampaio.
236a)
237) Rua Tiradentes 363, 14940 Ibitinga, SP.
238) Rua Ulhoa Cintra 842, 13800 Mogi Mirim, SP.
239) Av. Paraná 443, 86100 Londrina, PR.
240) Barão do Cerro Azul 874, 81800 São José dos Pinhais, PR.
241) Rua Marechal Deodoro 1664, 89800 Chapecó, SC.
242) Rua Bocaiúva 117, 88000 Florianópolis, SC.
243) Rua América s/n, 96900 Sobradinho, RS.
244) C.P. 85, 38440 Araguarí, MG – Mgr: W. Gebrim.
245) Praça Bernardino de Lima, 34000 Nova Lima, MG – DG: J. de Matos C.
246) Rua Andrades 1155, 90000 Porto Alegre, RS – DG: F. Westphalen.
247) Rua Bandeirantes 112, 18540 Porto Feliz, SP
248) 12200 São José dos Campos, SP – Dir: João Jorge Saad.
249) Av. Dom José 877, 62100 Sobral, CE.
250) Rua Cel. Passos Maia 229, 89820 Xanxeré, SC.
251) Av. Rio Branco 934, 97100 Santa Maria, RS.
252) Praça Mauá, 21andar, 20000 Rio de Janeiro, RJ – Dir: E.F.S. Jácome.
253) Praça Justo Clermont 1241, 66000 Belém, PA – DG: R. Jares N.
254) C.P. 568, 17600 Tupã, SP – Mgr: J.A. Neto.
255) Rua 15 de Novembro 453, 84160 Castro, PR.
256) Rua Um 1539, 15300 Rio Claro, SP.
257) Estrada das Lagrimas 155, 09500 S. Caetano do Sul, SP.
258) Praça J. Pinheiro 10, 36880 Muriaé, MG.
259) Rua Goitacazes 71, s/304, 30000 Belo Horizonte, MG.
260) Rua Teodoro Pacheco 1179, 64000 Teresina, PI.
261) Av. Nossa Senhora da Penha 2141, 29000 Vitória, ES – DG: J.A. Figueiredo C.
262) C.P. 126, 78000 Cuiabá, MT – Dir: J. Oliveira.
263) Rua Ruy Barbosa 412, 96100 Pelotas, RS.
264) Rua 15 de Novembro 539, 13730 Mococa, SP.
265) Rua Almirante Barroso 129, 19400 Presidente Wenceslau, SP.
266) Rua Visconde do Rio Branco 617, 12100 Taubaté, SP.
267) Rua dos Protestantes, 18110 Votorantim, SP.
268) Rua Maranhão 35, 2andar, 86100 Londrina, PR.
269) C.P. 61, 89100 Blumenau, SC.
270) Rua 15 de Novembro 60, 88790 Laguna, SC.
271) Rua Siqueira Campos 33, 2andar, 89400 Porto União, SC.
272) Povoado de Carvaggio, 95180 Farroupilha, RS.
273) C.P. 83, 58100 Campina Grande, PB.
274) Av. F. Flicério 957, 13100 Campinas, SP.
275) Av. Nossa Senhora da Luz 1074, 80000 Curitiba, PR.
276) C.P. 157, 96400 Bagé, RS – Dir: J.H.B. Gallo.
277) Av. Fernandes 259, 59600 Mossoró, RN.
278) Rua C. Eleutério 427, 99100 Passo Fundo, RS.
279) Rua do Russel 434, 20000 Rio de Janeiro, RJ – Dir: R. Brunini.
280) C.P. 48, 65000 São Luiz, MA – Dir: J.C. Moreira C.
281) Rua do General Osorio 252, 59000 Natal, RN.
282) Rua Goes Calmon 24, 48900 Juazeiro, BA.
283) Fundação Padre Ancheta, Rua Carlos Spera 179, 05099 São Paulo, SP – Dir: A.G. Ferri.
284) C.P. 195, 99700 Erechim, SC – DG: S. Badalotti.
285) C.P. 222, 60000 Fortaleza, CE.
286) Av. W-3, Quadra 4, 70000 Brasilia, DF.
287) Rua 7 de Setembro 301, 18100 Sorocaba, SP.
288) Rua Eng. O. Rebovcas 1882, 80000 Curitiba, PR – Mgr: E. Chede.
289) Rua Ruiz Pasteur 155, 93250 Esteio, RS.
290) Rua Domingos de Almeida 1722, 97500 Uruguiana, RS – Mgr: J.A. Souto.
291) Sete de Setembro 2, 29300 Cachoeira de Itapemirim, ES.
292) Av. Senhor dos Passos 792, 44100 Feira de Santana, BA – Dir: A.N. Fonsera.
294) C.P. 206, 17100 Bauru, SP – DG: Sinai Henrique de Oliveira.
295) Av. Pintos 1364, 14870 Jaboticabal, SP.
296) Rua Padre Gualdo Spellman 182, 88700 Tubarão, SC.
297) C.P. 173, 38400 Uberlândia, MG – Dir: E. Costa.
298) C.P. 102, 37100 Varginha, MG – Dir: S. Sampaio M.
299) Av. Presidente Vargas 266, 64200 Parnaíba, PI – Dir: C. Franklin Veras.
300) Av. Rui Barbosa 1236, 55300 Garunhuns, PE – Mgr: L.M. Pereira S.
301) Rua do Russel 434, 20000 Rio de Janeiro, RJ – Dir: W. Amaral.
302) Praça Vidal de Negreiros 427, 1-2andar, 58000 João Pessoa, PB.

303) Rua Prudente Moraes 704, 35100 Governador Valadares, MG.
304) C.P. 311, 69000 Manaus, AM.
305) C.P. 856, 11100 Santos, SP.
306) Av. Guararapes 54, 50000 Recife, PE – DG: H. Sodre de Mota P.
307) C.P. 34, 76820 Ipameri, GO – Mgr: W. Naves.
308) Praça João Pessoa 28, 18600 Botucatu, SP.
309) Rua Gal. Osorio 1134, 98200 Ibiruba, RS.
310) Rua Conde de Porto Alegre, 97570 Santana do Livramento, RS.
311) C.P. 110, 38300 Ituiutaba, MG.
312) Rua Dom Pedro II 117, 48100 Alagoinhas, BA.
313) Rua Dr. Vicente Machado 1068, 85100 Guarapuava, PR – DG: V. Machado.
314) C.P. 336, 89200 Joinville, SC – DG: R. Gregório da Silva.
315) 15 de Novembro 717, 96100 Pelotas, RS – Dir: E. Menegoto.
316) Praça P. Sanches 145, 37700 Poços de Caldas, MG – DG: A. dos Passos.
317) Praça, Cel. Gonçalo Prado s/n, 49200 Estância, AL.
319) Rua Ceará 417, 87700 Parnavai, PR.
320) Rua do Comercio 290, 89896 Itapiranga, SC.
321) Rua Sinimbú 1692, 95100 Caxias do Sul, RS.
322) Praça da Bandeira 29, 79600 Tres Lagoas, MT.
323) Rua 19 No. 34, 4andar, 76700 Ceres, GO.
324) Praça São Sebastião 137, 69460 Coari, AM.
325) Rua Cnel. Zeze, 63700 Crateús, CE.
326) Rua Granja Julieta 205, 04721 São Paulo, SP.
327) Rua Virgario José Inácio 250, 12andar, 9200 Canoas, RS.
328) Rua do Comércio 515, 57000 Maceió, AL – Dir: J. Barbosa O.
329) Rua 15 de Novembro 550, 15andar, 89100 Blumenau, SC.
330) C.P. 51, 78980 Guaruja Mirim, RO – Mgr: L. do Reis P.
331) Av. Nossa Senhora da Luz 1074, 80000 Curitiba, PR – Dir: L. Pedrazani.
332) Rua Coronel Serafim Chaves 1, 62930 Limoeiro do Norte, CE.
333) C.P. 330, 74000 Goiânia, GO – DG: A. de Souza.
334) C.P. 145, 59000 Natal, RN – Mgr: F. Sinedino O.
335) Av. Pedro Ivo 216, 83300 Piraguara, PR.
336) Praça Getúlio Vargas 81, 36400 Conselherio Lafaiete, MG – DG: A. Ganaime.
337) Rua Cerqueira Cesar 35, 14100 Ribeirão Preto, SP.
338) Treze de Maio 49, 28100 Campos, RJ.
340) C.P. 625, 13100 Campinas, SP – DG: S. Pedroso Jr.
341) Av. Amazonas 466, 86970 Mandaguari, PR.
342) Rua Paulino Horn, 88790 Laguna, SC.
343) Rua Jozino Lima 118, 98280 Panambi, RS.
344) Rua Cel. Alfredo Born 447, 96170 São Lourenço do Sul, RS.
345) Rua Tiradentes 710, 95800 Venâncio Ayres, RS.
346) Praca Santa Tereza 283, 69470 Tefe, AM.
347) Rua Tarquí Lopes 283, Edif. Bem, 65000 São Luiz, MA – DG: Antônio J. Oliveira Gomes.
348) Rua Bernardino de Campos 3180, 15100 São José de Rio Preto, SP – Mgr: A. Ismael.
349) C.P. 520, 77100 Anápolis, GO – Dir: C. Alves Ribeiro.
350) Rua José Clemente 500, 69000 Manaus, AM – Dir: J. de Souza L.
351) Rua Goiás 197, 38600 Paracatu, MG.
352) Av. do Estado 3163, Sobreloja, 01027 São Paulo, SP – DG: P. Coev.
353) C.P. 578, 60000 Fortaleza, CE – Dir: A.R. Carneiro N.
355) Rua Fioravante Milanez 85, 92000 Canoas, SC.
356) Rua Galdino Pimental 171, 78000 Cuiabá, MT.
357) Av. Duque de Caxias 370, 87100 Maringá, PR.
358) Rua 15 de Novembro 515, 84100 Ponta Grossa, PR.
359) Rua Veinte 1234, 38300 Ituiutaba, MG.
360) Rua Santa Luzia 391, 63180 Juazeiro do Norte, CE.
361) Rua Lavique Lemos 44, 45660 Ilheus, BA.
362) Praça Zacarias 46, 25andar, 80000 Curitiba, PR.
363) C.P. 268, 96100 Pelotas, RS.
364) Praça Dom Pedro II 17, 25600 Petrópolis, RJ – DG: W. Carneiro Malta.
365) C.P. 62, 74000 Goiânia, GO – Dir: E.P. Junqueira.
366) Rua Floriano Peixoto, 62100 Sobral, CE.
367) Rua Duque de Caxias 154, 13630 Pirassununga, SP.
368) C.P. 39, 17600 Tubã, SP.
369) Rua Santo Angelo 245, 98920 Horizontina, SC.
370) Rua Gaspar Viana 253, 66000 Belém, PA.
371) C.P. 61, 89100 Blumenau, SC.
372) C.P. 44, 89800 Chapecó, SC – Dir: F. Müller Bohner.
373) Praça Luiz Noqueira 7, 48700 Serrinha, BA.
374) C.P. 75, 12900 Bragança Paulista, SP – Dir: J.F. Ferreira A.
375) C.P. 155, 14100 Ribeirão Preto, SP – Dir: T.A. Souza N.
376) Villa Nossa Senhora Fátima, 84200 Jaguariaiva, PR.
377) Av. Rio Branco 401, 96450 Dom Pedrito, RS.
378) Praça Gaspar Martins 74, 95900 Lageano, RS.
379) Praça dos Palmeres s/n, 57000 Maceió, AL.
380) C.P. 140, 30000 Belo Horizonte, MG – Mgr: H. Leite.
381) Rua Andrades 1155, 90000 Porto Alegre, RS – Dir: E. Salis B.
382) Rua Barao do Jaceguai 474, 3andar, 0870 Mogi das Cruzes, SP.
383) Rua Leopoldo Machado 1018, 68950 Macapá, AP – DG: H. Pandolf.
384) C.P. 346, 16100 Araçatuba, SP – DG: N. Fares.
385) Rua Marabu 45, 86700 Arapongas, PR.
386) Rua Bom Jesus 511, 83880 Rio Negro, PR.
387) C.P. 18, 79200 Aquidauana, MT – DG: E. Miranda.
388) Rua Eduardo Ribeiro, Esquina Av. Solimos, Itaquatiara, AM.
389) C.P. 160, 58100 Campina Grande, PB – DG: Marconi Góes A.
390) Av. Maripa esq. Rua Santa Catarina, 85960 Marechal Candido Rondon, PR.
391) Rua Rio de Janeiro 71, 37700 Poços de Caldas MG – Dir: J. C. Garuti S.
392) Rua Barão do Rio Branco, 89460 Canoinhas, SC.
393) Rua 7 de Setembro 2586, 89100 Blumenau, SC.
394) Rua Daltro Filho s/n, 98600 Três Passos, RS.
395) Av. Treze de Maio 23, 20000 Rio de Janeiro, RJ – DG: J.J. Saad. Mgr: D. Tanus.
396) C.P. 13, 74000 Goiânia, GO.
397) C.P. 740, 60000 Fortaleza, CE – DG: A. Peixoto.
398) C.P. 173, 15600 Fernandópolis, SP – Dir: M. Ribeiro.
399) Rua Treze de Julho 899, 79300 Corumbá, MT.
400) Travessa dos Mártires 393, 68100 Santarem, PA – Mgr: H.A. Almeida S.
401) Rua Senador Pinheiro Machado 383, 97900 Cerro Largo, RS.
402) C.P. 10, 99150 Marau, RS – Dir: F.S. Turra.
403) Rua Voluntários da Patria 475, 80000 Curitiba, PR.
404) Rua do Acampamento 446, 97100 Santa Maria, RS – Dir: C. Zappe.
405) C.P. 19, 45600 Itabuna, BA – Mgr: P. Nunes F.
406) Rua Páes Leme 1363, 16900 Andradina, SP.
407) C.P. 22, 14800 Araraquara, SP – Mgr: J.A. Quirino dos Santos.
409) Praça João Pessoa s/n, 12200 São José dos Campos, SP.
410) Rua do Comercio 36, 89900 São Miguel d'Oeste, SC.
411) Rua Travessa Cavour, 95270 Flores da Cunha, RS.
418) C.P. 13, 36500 Ubá, MG – DG: B. Dutra de Mendonça.
415) Rua Palma 167, 50000 Recife, PE – Dir: M.A.C. da Cunha.
416) Rua Carlos Lacerda 52, 28100 Campos, RJ.
417) Travessa Leopoldo Neves 503, 69150 Parintins, AM.
418) Rua Guanabara 144, 13840 Mogi Guaçu, SP.
419) Rua Visconde de Inhauma 543, 14100 Ribeirão Preto, SP.
420) Av. III Cidade Industrial, 32000 Contagem, MG.
421) Av. Getúlio Vargas 236, 87100 Maringá, PR – Dir: J. Dutra.
423) Rua Quintino Bocaiuva 16, 29000 Vitória, ES – Dir: E. Conde.
424) C.P. 19, 27400 Barra Mansa, RJ – Dir: O. Marchi Nora.
425) Rua 13 de Maio 140, 3andar, 13100 Campinas, SP.
426) Rua Dr. Altino Arantes 635, 11660 Caraguatatuba, SP.
427) Rua Marechal Deodoro 40, 88500 Lages, SC.
428) C.P. 276, 38100 Uberabá, MG – Dir: O. Sabino de Freitas Jr.
429) Rua Barão do Rio Branco 1151, 68600 Bragança, PA – Mgr: I.A. Lima.

430) Rua do Imperador 346, 55200 Pesqueira, PE.
431) Praça Hilda 7, Apto. 60, 20000 Rio de Janeiro, RJ – Mgr: H. Muniz.
432) Rua Ruy Barbosa 53, 58700 Patos, PB – DG: J. de Assis.
433) Rua 15 de Novembro s/n, 85100 Guarapuava, PR.
434) Alameida Botafogo 18, 74000 Goiânia, GO.
435) Av. Brasil 1170, 17780 Lucelia, SP.
436) Rua Major José Ignacio 2154, 13560 São Carlos, SP.
437) Largo Nossa Senhora Aparecida s/n, 15100 São José do Rio Preto, SP.
438) Av. Senador S. Neves 155, 86100 Londrina, PR.
439) Av. Brasil 1001, 89887 Palmitos, SC.
440) Alameida Aristiliano Ramos 275, 89160 Rio do Sul, SC – DG: D. Tito Buss.
441) C.P. 12899, 01000 São Paulo, SP – DG: Salomão Jr.
442) C.P. 851, 60000 Fortaleza, CE – Dir: A. Queiroz F.
443) Rua Marechal Floriano 176, 96200 Rio Grande, RS.
444) Av. Rio Branco 644, 98900 Santa Rosa, RS.
445) Rua 3 de Outubre 6, 28300 Itaperuna, RJ.
446) Rua Delmare 1207/21, 79300 Corumbá, MT.
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1)	CB54	540	1	R. Ignacio Serrano, Melipilla
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3)	CB57	570	50	R. Agricultura, Santiago: 1030-0430
4)	CA59	590	1	R. Minería, Antofagasta: 1030-0430
5)	CC59	590	1	R. Cooperativa, Concepción
6)	CA62	620	1	R. Norte Verde, Ovalle
7)	CD62	620	10	R. Pres. Ibañez, Punta Arenas: 1000-0500
8)	CB63	630	1	R. Instituto de Extensión Musical, Santiago
9)	CA63	630	0.1	R. Chañaral, Chañaral
10)	CC63	630	0.1	R. Constitución, Constitución
11)	CD63	630	1	R. Los Confines, Angol
12)	CA64	640	1	R. Nacional, Iquique
13)	CD64	640	10	R. Cautín, Temuco: 1055-0400
14)	CB66	660	50	R. Chilena, Santiago: 1100-0400
15)	CC68	°680	10	R. Universidad, Concepción: 1100-0400
16)	CB69	690	10	R. Santiago, Santiago: 1030-0400
17)	CD69	690	1	R. Coyhaique, Coyhaique: 1200-0400
18)	CB73	°730	10	R. Cooperativa, Valparaíso: 1100-0400
19)	CD73	730	0.25	R. O'Higgins, Los Angeles
20)	CD73B	730	1	R. Aysen, Pto. Aysen
18)	CB76	°760	75	R. Cooperativa Vitalicia, Santiago: 1100-0500
21)	CA78	°780	1	R. Libertad, Antofagasta
22)	CB78	780	1	R. El Mar, Valparaíso: 1030-0400
23)	CD78	780	10	R. Sago, Osorno: 1100-0400
24)	CA82	820	0.25	R. Pampa, Pedro de Valdivia
25)	CA82	820	1	R. Nacional, La Serena
26)	CC82	820	1	R. Almirante Latorre, Talcahuano: 1045-0400
27)	CD82	820	1	R. Concordia,La Unión:1130-0400
28)	CB84	840	10	R. Portales, Valparaíso: 1030-0500
29)	CA86	860	10	Nuevo R.El Lua, Chuquicamata: 1100-0400
30)	CA89	890	1	R. León XIII, Salitr. Victoria
31)	CB89	890	1	R. Bulnes, Santiago: 1100-0400
32)	CC89	890	1	R. Interamericana, Concepción: 1055-0355
33)	CD89	890	1	R. Polar, Punta Arenas: 1030-0400
34)	CA90	900	1	R. Universidad Técnica, Copiapó: 1100-0200
35)	CB90	900	1	R. Fundación, Valparaíso: 1100-0400
36)	CC90	900	1	R. Nuble, Chillán
37)	CD90	900	1	La Voz de la Costa, Osorno: 1100-0245
38)	CA93	930	10	R. Nacional, Antofagasta
39)	CB93	°930	10	R. Nuevo Mundo, Santiago: 1100-0500
40)	CB96	960	10	R. Carrera, Santiago
41)	CD96	960	1	R. Nielol, Temuco
42)	CA97	°970	0.25	R. Calama, Calama: 1200-0300
3)	CB97	970	1	R. Agricultura, Valparaíso
43)	CC97	970	1	R. Lautaro, Talca
44)	CD97	970	1	R. Patagonia, Coyhaique
45)	CD97	970	1	R. Austral, Valdivia
46)	CA98	980	1	R. Univ. del Norte, Arica: 1200-0400
47)	CA101	1010	0.25	R. Coya, María Elena
48)	CB101	°1010	10	R. Presidente Balmaceda, Santiago: 1030-0400
49)	CD101	1010	1	R. Llanquihue, Puerto Montt: 1100-0400
50)	CB103	1030	1	R. Valentín Letelier, Valparaíso: 1200-0300
51)	CC103	1030	10	R. Nacional, Concepción
52)	CD103	1030	1	R. Chiloé, Castro: 1200-0400
53)	CD103	1030	1	R. Paine, Puerto Natales
54)	CB106	°1060	50	R. Minería, Santiago: 1100-0400
55)	CA108	1080	1	R. Rio Elqui, Vicuña
56)	CB108	1080	1	R. Recreo, Viña del Mar: 1000-0500
57)	CC108	1080	1	R. Los Héroes, Chillán: 1100-0430
58)	CA109	1090	1	R. La Portada, Antofagasta
59)	CB109	1090	5	R. Novísima, Santiago: 1030-0430
60)	CC109	1090	5	R. Regional de Talca: 1100-0500
61)	CD109	1090	1	R. Minería de Punta Arenas: 1100-0400
62)	CC111	1110	0.1	R. El Roble, Parral
63)	CD111	1110	1	R. La Frontera, Temuco: 1045-0500
64)	CB114	°1140	50	R. Nacional del Chile, Santiago: 1000-0400
65)	CB118	°1180	50	R. Diego Portales, Santiago: 1030-0400
66)	CA120	1200	1	R. Almirante Blanco Encalada, Tocopilla
3)	CD120	°1200	1	R. Soc. Nal. de Agricultura, Los Angeles: 1030-0530
67)	CA121	1210	1	R. Universidad Técnica, Antofagasta
68)	CB121	°1210	25	R. Universidad Técnica del Estado, Santiago: 1100-0300
69)	CA124	1240	1	R. del Salitre, Iquique
70)	CB124	1240	1	R. Viña del Mar, Viña del Mar
71)	CC124	1240	1	R. Universidad Técnica del Estado, Talca
72)	CA125	1250	1	R. La Serena, La Serena
73)	CD125	1250	10	R. Univ. Técnica del Estado, Valdivia
74)	CA126	°1260	10	R. Nacional, Arica: 1100-0500
75)	CC126	1260	1	R. Condell, Curicó
76)	CC126	1260	1	R. Bio-Bio, Concepción: 24h
77)	CA127	°1270	0.25	R. Cooperativa, Antofagasta: 1100-0400
54)	CB127	1270	10	R. Minería, Viña del Mar: 1030-0600
78)	CD127	1270	0.5	R. Univ. Técnica, Temuco: 1300-2100
79)	CB130	1300	5	R. Andrés Bello, Santiago
80)	CD130	1300	10	R. Pilmaiquén, Valdivia
81)	CA132	1320	0.25	R. Estrella del Norte, Vallenar
82)	CD132	1320	0.1	R. Lincoyán, Caucuenes
83)	CA133	1330	0.25	R. José Santos Ossa, Taltal
84)	CB133	1330	1	R. Panamericana, Santiago: 24h
85)	CD133	1330	1.2	R. Regional, Puerto Montt: 1100-0300
86)	CA134	1340	0.25	R. Toco, Tocopilla
87)	CC134	1340	1	R. La Discusión, Chillán
88)	CD134	1340	0.5	R. Cacique Paillalef, Pitrufquén: 1200-0400
89)	CD135	1350	0.5	R. Pudeto, Ancud
90)	CD135	1350	1	Cabo de Hornos, Pto. Williams: 1030-0400
91)	CA135	1350	1	R. Riquelme, Coquimbo: 1030-0430.
92)	CA136	1360	0.25	R. Freirina, Vallenar: 1200-0200
93)	CC136	1360	10	R. Universidad Técnica del Estado, Concepción
94)	CB138	°1380	50	R. Colo Colo, Santiago: 24h
95)	CC140	1400	1	R. Inéz de Suárez, Concepción
96)	CB141	1410	1	R. Valparaíso, Valparaíso: 1000-0400
97)	CD141	1410	1	R. Loncoche, Loncoche: 1200-0100
98)	CA142	1420	1	R. Alonso de Ercilla, Illapel: 1100-2400
99)	CC142	1420	1	R. Maule, Cauquenes: 1050-0430
100)	CC143	1430	1	R. Regional, Rancagua: 1100-0400
101)	CA144	1440	1	R. Arica, Arica
102)	CA144	1440	1	R. Univ. Técnica del Estado, La Serena: 1030-0400
103)	CB145	1450	5	Univ. Técnica Santa María, Valparaíso: 1900-0300
104)	CC145	v1450	1	R. Libertad, Curicó (rep. on 1480): 1100-0400

	Call	kHz	kW	Name and location
105)	CD145	1450	1	R. Turismo, Pto. Varas
106)	CA146	1460	10	R. Antofagasta, Antofagasta
107)	CB146	°1460	10	R. Dimension 146 Santiago: 24h
108)	CC146	1460	1	R. Talcahuano, Talcahuano: 1030-0400
109)	CB147	1470	0.25	R. Trasandina, Los Andes: 1145-0300
110)	CC148	1480	1	R. Tomé, Tomé
111)	CD148	1480	1	R. Baquedano, Valdivia
112)	CD149	1490	1	R. Malleco, Victoria
113)	CA150	1500	10	R. Patricio Lynch, Iquique
114)	CC150	1500	0.25	R. Centenario, San Javier
115)	CC151	1510	1	R. Rancagua, Rancagua: 1100-0400
116)	CD151	1510	1	R. Arauco, Lebu: 1100-0400
117)	CC152	1520	1	R. Soberanía, Linares: 1100-0400
118)	CD152	1520	1	R. Aníbal Pinto, Lautaro: 1030-0300
119)	CA153	1530	1	R. Juan Godoy, Copiapó
120)	CB153	1530	1	R. San Martín, Quillota: 1100-0400
121)	CC153	1530	1	R. El Carbón, Lota
122)	CB154	1540	1	R. Sudamérica, Santiago
123)	CD154	1540	0.25	R. San José de Alcudia, Río Bueno
124)	CB155	1550	0.1	R. Provincial, Putaendo
125)	CC155	1550	0.25	R. Manuel Rodríguez, San Fernando
126)	CD155	1550	0.25	R. Traiguén, Traiguén
127)	CC156	1560	0.1	R. Central, San Carlos
128)	CB157	1570	1	R. Sargento Aldea, San Antonio
129)	CC157	1570	1	R. O'Higgins, Rancagua
130)	CA158	1580	0.25	R. Guacolda, Huasco
131)	CC158	1580	0.25	R. Colchagua, Santa Cruz
132)	CD158	1580	0.05	R. Millaray, Cañete
133)	CD158	1580	0.05	R. Continental, Collipulli
134)	CB159	1590	1	R. Aconcagua, San Felipe: 1145-0300
135)	CC159	1590	0.25	R. Rengo, Rengo
136)	CB160	1600	0.25	R. Reloj, Valparaíso
137)	CB160A	1600	0.25	R. Chronos, Santiago: 24h
138)	CC160A	1600	0.25	R. Reloj, Concepción
139)	CD160	1600	0.25	R. Horario, Temuco

Shortwaves: Location: Santiago exc. where indicated.

94)	CE488	4885	1	R. Colo Colo, Santiago: 24h
39)	CE590	5950	1	R. Nuevo Mundo: 1100-0500
48)	CE597	5975	1	R. Presidente Balmaceda: 1030-0345(Sun 0400)
77)	CE601	6010	5	R. Cooperativa, Antofagasta
65)	CE602	6020	1	R. Diego Portales: 1030-0400
21)	CE605	6045	5	R. Libertad, Antofagasta: 1100-0700
54)	CE607	6075	5	R. Minería: 1000-0530
42)	CE610	6100	1	R. Calama: 1200-2100
15)	CE613	6135	10	R. Universidad, Concepción: 1100-0400
18)	CE615	6150	5	R. Cooperativa Vitalicia, Santiago: 1100-0400
68)	CE618	6180	1	R. Universidad Técnica del Estado: 1100-0300
64)	CE619	6190	10/1	R. Nacional del Chile: 1000-1510, 1810-0350
64)	CE951	9510	30/1	R. Nacional del Chile: 1000-1510, 1810-0350
74)	CE953	9530	1	R. Nacional de Arica, Arica: 1100-0500
64)	CE955	9560	10	R. Nacional del Chile: 1000-1510, 1810-0350
65)	CE956	9572	10	R. Diego Portales: 1030-0400
48)	CE959	9590	10	R. Pres. Balmaceda: 1000-0345(Sun 0400)
107)	CE965	9650	1	R. Dimension: 24h
18)	CE969	9690	10	R. Cooperative Vitalicia, Santiago: 1100-0400
54)	CE957	9750	5	R. Minería: 1030-0400
39)	CE1173	11730	5	R. Nuevo Mundo: 1100-0500
64)	CE1180	11810	30/1	R. Nacional del Chile: 1810-0350
54)	CE1196	11960	5	R. Minería: 1000-0530
64)	CE1515	15150	100	R. Nacional del Chile: 1000-1510, 1810-0350

Addresses and other information:

Radio Difusoras Australes Soc. Ltd, Cas. 2871, Santiago.
L.P: Dir.Gen: J. Lavandero E. and G. Cortéss C.
St's: 85), 89), 100).

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17) Cas. 176, Coyhaique – Dir: E. Echeverría B.
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61) Cas. 40-D, Punta Arenas – Mgr: R. Utz.
62) Cas. 300, Parral – Mgr: J. Rogazy C.
63) Cas. 910, Temuco – Mgr: E. Miller S.
64) Cas. 244V, Santiago – Dir: Gabor Torey H.

D.Prgr: English: 1050-1110, 1210-1230, 1330-1350, 2250-2310, 0110-0130, 0210-0230, 0310-0330. **Spanish:** 1145-1200, 2220-2240. **Arabic:** 1200-1215, 2035-2050, 2310-2325. **Russian:** 2050-2110. **German:** 2110-2135. **Italian:** 2135-2200. **French:** 2200-2220. Language

cycle: 2030-2330 repeated twice: 2330-0430. **Home Sce:** 6190: 0900-2030; 9510: 0900-0400; 15150: 1400-2000. May be used also by stn 94).

65) CB118/CE956: Cas. 13962, Santiago – Mgr: R. Tarud S. CB59: Cas. 98V, Valparaíso. CC108: Cas. 21-D, Talca – Dir: H. González S. Dir.Tec: A. Hasbun A.
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67) Angamos 601, Antofagasta – Mgr: Eugenio Reyes.
68) Av. Ecuador 3479, Santiago – Dir: E. Reyes P.
69) Cas. 290, Iquique – Dir: Elsa Dias B.
70) Cas. 354, Viña del Mar – Mgr: J. Venegas V.
71) Cas. 450, Talca – Mgr: S. Matamala.
72) Cordovés 311, La Serena – Mgr: Luis Cavieras S.
73) Gral. Lagos 2077, Valdivia – Dir: E. Reyes.
74) Cas. 49-D, Arica – Dir: Gabor Torey.
75) Cas. 492, Curicó – Dir: A. Cervera T.
76) B. O'Higgins 680, Concepción – Dir: O. Olivieri A.
77) Cas. 556, Antofagusta – Mgr: Carlos Wilson.
78) Cas. 400, Temuco – Dir: Eugenio Reyes.
79) Miraflores 276, Santiago – Mgr: J. Morris V.
80) Cas. 597, Valdivia – Mgr: Ernesto Merino H.
81) Marañon 510, Vallenar – Mgr: Greta Pizarro B.
82) Errázuriz 221, Cauquenes – Mgr: V. Amigo H.
83) Serrano 392, Taltal — Dir: F. Vergera V.
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85) Cas. 347, Puerto Montt — Mgr: Gabor Torey.
86) Cas. 808, Tocopilla – Dir: J. Gómez L.
87) Cas. 11-D, Chillán — Mgr: A. Lagos V.
88) Cas. 132, Pitrufquen – Mgr: I. Figueroa M.
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91) Cas. 92, Coquimbo – Dir: Luis Muchea C.
92) Cas. 36, Freirina – Mgr: A. Carriel S.
93) Universidad Técnica del Estado, Calle s/n, Concepción – Dir: Eugenio Reyes.
94) Cas. 13940, Correro 15, Santiago – Mgr: F. Barahona.
95) Cas. 462, Concepción – Mgr: R. Arjona N.
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101) 21 de Mayo 815, Arica – Mgr: C. Asuero R.
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104) Cas. 757, Curicó – Mgr: A. Sasuari.
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107) Cas. 3041, Santiago – Mgr: W. de la Maza.
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109) Cas. 307, Los Andes – Dir: R. Grez T.
110) Ignacio Serrano 175, Tomé – Dir: A. Castillo V.
111) Beaucheff 610, Valdivia – Mgr: C. Cuckbaine.
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114) Cas. 18-D, San Javier – Mgr: M. Gaete L.
115) Cas. 8-D, Rancagua – Mgr: C. Lisperquer F.
116) Cas. 76, Lebu – Mgr: A. Peña P.
117) Cas. 11-D, Linares – Mgr: A. Astete B.
118) Cas. 242, Lautaro – Mgr: E. Devaud R.
119) Maipú 390, Copiapó – Mgr: H. Latorre L.
120) Cas. 363, Quillota – Mgr: M. Cisternas I.
121) Cas. 63, Lota – Mgr: N. Mosciatti M.
122) Cas. 1346, Santiago – Mgr: M. Casablanca L.
123) San Martín 1114, Rio Bueno – Mgr: H. Navarrate P.
124) Cas. 75, Putaendo – Mgr: H. Arancibia C.
125) Cas. 147, San Fernando – Mgr: L. Guerra C.
126) Cas. 293, Traiquen – Mgr: M. Cuadra O.
127) Cas. 202, San Carlos – Dir: O. Villamán F.
128) Cas. 522, San Antonio – Dir: M. Jara S.
129) Colo Colo 283, Rancagua – Dir: B. Limardo C.
130) A. Aracena 850, Huasco – Dir: Greta Pizarro.
131) Cas. 170, Santa Cruz – Mgr: J. Villalón G.
132) Videla 196, Cañete – Mgr: L.G. Rivas L.
133) Alcázar 656, Collipulli – Mgr: R. Abasolo.
134) Cas. 100, San Felipe – Mgr: R. Grez J.
135) Plaza 47, Rengo – Mgr: Sra. I. de Gandarillas.
136) Cas. 972, Viña del Mar, Valparaíso – Dir: G. Salvador Cortéz.
137) Sótero del Rio 326, Santiago – Mgr: F. Claro M.
138) Cas. 101, Concepción – Mgr: E. Sanchez M.
139) Portales 1012, Temuco – Mgr: I. Hoecker N.

COLOMBIA

L.T: GMT–5h – **Pr.L:** Spanish – **E.C:** a/c 110-120V 60c/s (yes).

MINISTERIO DE COMUNICACIONES: Dirección General de Radiocomunicaciones, Edificio Murillo Toro, Bogotá D.E.

STATIONS: Mediumwaves: Call: HJ— °=shortwave; *=inactive; v=varying fq.

	Call	kHz	kW	Name, location and h. of tr.
1a)	KA	540	10	Emis. Horizonte, Bogotá: 24h
2)	—	°550	50	R. Nacional, Medellín (Marinilla)
3)	GS	°560	10	Transm. de la Independencia, Tunja: 1100-1900, 2200-0300
2)	ND	°570	100	R. Nacional, Bogotá: 0930-0500
2)	HG	*580	10	R. Nacional, Cali
4a)	CR	590	100	R. Sutatenza, Medellín: 0850-0400
5)	HJ	600	50	R. Libertad, Barranquilla: 24h
1b)	KL	°610	30	Emisora Nueva Granada, Bogotá: 24h
6)	EL	620	20	R. Ciudad de Cali, Cali: 24h
7)	FD	630	20	R. Manizales, Manizales: 24h
8)	BJ	640	10	La Voz de Santa Marta: 1045-0500
9)	JX	650	10	Emisoras Monserrate, Bogotá: 1000-0600
10)	JM	660	10	R. Uno, Cali: 24h
11)	NX	670	10	R. Sport, Medellín
2)	BU	680	100	R. Nacional, Zambrano
12)	CZ	690	10	La Voz de Colombia, Bogotá: 1000-0500
4b)	CX	700	120	R. Sutatenza, Cali: 0850-0400
13)	NX	°710	10	R. Super, Medellín: 24h
14)	AN	720	30	Emisoras Unidas, Barranquilla
15)	CU	730	30	R. Melodía, Bogotá: 24h
16)	HB	740	10	Ecos de Pasto, Pasto: 1000-0400
17)	NS	°740	25	R. Guatapurí, Valledupar
18)	DK	750	50	La Voz de Antioquia, Medellín: 24h
19)	AJ	760	30	La Voz de Barranquilla: 24h
9)	KH	770	30	R. Tequendama, Bogotá
20)	ZG	780	30	La Voz del País, Cali: 1030-0400
18)	DC	790	10	R. Junín, Medellín
21)	BW	800	10	R. Atalaya, Bucaramanga
4c)	CY	°810	250	R. Sutatenza, Bogotá: 0850-0400
22)	ED	820	50	La Voz del Río Cauca, Cali: 24h
18)	DM	830	10	R. Visión, Medellín: 24h
23)	BI	840	30	Ondas del Caribe, Santa Marta: 1000-0500
24)	KC	°850	50	Emis. Nuevo Mundo, Bogotá: 24h
25)	EP	860	10	Voces de Occidente, Buga
26)	LA	°870	10	La Voz del Tolima, Ibagué
27)	GE	°880	10	R. Bucaramanga: 1000-0400
9)	CE	890	10	La Voz de Bogotá: 24h
10)	EY	900	10	La Voz de Cali: 24h
28)	DO	910	25	La Voz del Río Grande, Medellín: 24h
29)	AE	920	10	Emisoras Fuentes, Cartagena: 24h
9)	CS	°930	10	R. Continental, Bogotá: 24h
10)	GB	940	10	R. Eco, Cali: 24h
30)	TL	940	30	La Voz del Progreso, Cúcuta
31)	FN	950	10	La Voz del Café, Pereira: 24h
4d)	HN	960	120	R. Sutatenza, Magangué: 0850-0400
32)	ME	970	50	R. Península, Maicao
33)	CI	970	10	La Voz de la Víctor, Bogotá: 24h
10)	ES	980	20	R. El Sol, Cali: 24h
11)	DB	990	30	La Voz de Medellín: 24h
2)	HF	°1000	10	R. Nacional, Manizales
34)	AR	1000	15	La Voz de Cartagena, Cartagena
35)	BN	1010	10	La Voz del Galeras, Pasto: 24h
36)	CC	1010	10	Emisora Mil Veinte, Bogotá
37)	JR	°1005	15	R. Colosal, Neiva: 24h (nom. 1010)
4e)	OP	1010	10	R. Sutatenza, Barranquilla: 0850-0400
38)	IX	1010	10	R. Yarima, Barrancabermeja
39)	DQ	1020	10	Emisora Claridad, Medellín: 1100-0500
40)	KS	1020	10	La Voz del Llano, Villavicencio: 1000-0500
41)	ZD	1020	10	R. Panzenú, Montería

	Call	kHz	kW	Name, location and h. of tr.
42)	FQ	1020	10	La Voz de Pereira, Pereira
43)	FT	1025	10	Ecos del Combeima, Ibagué: 24h
44)	DJ	1030	10	La Voz de los Libertadores, Duitama: 1000-0500
45)	DZ	1030	10	R. Primavera, Bucaramanga
46)	ER	°1030	30	R. Pacífico, Cali: 24h
47)	AI	1040	15	R. Tropical, Barranquilla: 24h
48)	CJ	°1040	10	R. Super, Bogotá: 24h
49)	GX	1040	10	R. Progreso de Córdoba, Lorica
50)	FM	1040	10	La Voz de Armenia
51)	BB	°1050	2	R. Valledupar: 24h
52)	DR	1050	15	R. Familiar, Medellín: 24h
53)	FZ	°1055	15	La Voz del Centro, Espinal
54)	LZ	°1050	1	La Voz del Cinaruco, Arauca: 24h
55)	NG	1050	2.5	R. Palmira, Palmira: 1100-0500
56)	FJ	1060	15	Transm. Caldas, Manizales: 24h
21)	GU	1060	1	Armonias del Bucarica, Bucaramanga
57)	MG	1060	1	R. Prosperidad, Turbo
58)	MV	1060	3	R. Furatena, Chiquinquirá: 0900-0600
59a)	AG	°1070	15	Emis. Atlántico, Barranquilla: 24h
60)	CG	°1070	15	R. Sante Fé, Bogotá: 24h
61)	AW	1080	10	La Voz de Montería, Montería: 1000-0500
18)	DZ	v1080	4	R. Reloj, Medellín: 24h
10)	JF	1080	10	R. Musical, Cali: 24h
62)	KT	1080	10	R. Macarena, Villavicencio
63)	JS	1080	1	R. Pontoná, La Dorada
64)	PA	1080	1	La Voz de las Islas, Isla San Andrés
65)	IG	°1090	10	La Voz de la Selva, Florencia
66)	BC	1090	10	La Voz de Cúcuta, Cúcuta: 24h
67)	EO	1090	10	Ondas del Valle, Cartago: 1100-0400
68)	IH	1090	1	La Voz de Oriente, Sogamoso
7)	IA	1090	10	Ondas del Nevado, Manizales: 24h
24)	CN	1100	10	R. Reloj, Bogotá: 24h
69)	TM	1100	10	R. Sonar, Ocaña: 24h
47)	AT	1100	1	R. Reloj, Barranquilla: 24h
70)	GO	1100	10	R. Paisa, Andes
71)	GI	1100	1	José A. Galán, Socorro
72)	MK	1100	5	Emisora Ideal, Planeta Rica
73)	DI	1110	1	R. Bolivariana, Medellín
22)	EW	1110	10	R. Reloj, Cali: 24h
74)	JP	°1110	10	R. Villavicencio: 24h
75)	ZE	1110	5	R. Piragua, Sincelejo
76)	NC	1110	2.5	Nueva Voz del Nevado, Ibagué: 0900-0500
77)	GH	1120	5	R. del Comercio, Bucaramanga: 24h
78)	KQ	1120	10	R. Tunja, Tunja: 1100-0400
79)	JC	1120	1	R. Cartago, Cartago: 0900-0500
80)	AC	1130	10	Emis. Río-Mar, Barranquilla: 24h
81)	NH	1130	5	Ondas del Río, Magangué
82)	CO	1130	5	Emisoras Eldorado, Bogotá: 1100-0700
83)	FP	°1130	10	R. Neiva, Neiva
84)	JN	1130	1	Ondas del Mayo, La Unión: 1000-0400
85)	TI	1130	10	R. Tonchalá, Cúcuta
28)	DL	1140	15	R. Cristal, Medellín: 24h
86)	EV	1140	1	La Voz del Valle, Cali
87)	KW	°1140	10	La Voz de los Centauros, Villavicencio: 24h
34)	KO	1140	10	La Voz de la Victoria, Cartagena: 24h
88)	TR	1140	10	R. Girardot, Girardot
89)	FH	1140	10	La Voz de Anserma, Anserma
90)	GJ	1150	1	R. Vencedores, Duitama: 1100-0300
91)	FI	1150	1	Pregones del Quindío, Armenia
69)	BT	1150	10	R. Catatumbo, Ocaña
92)	TE	°1150	1	Brisas del Citará, Quibdó
93)	AZ	1160	5	La Voz del Sinú, Montería: 24h
94)	BL	1160	10	R. Aeropuerto, Barranquilla
95)	AU	°1160	2	Ondas del Orteguaza, Florencia: 0830-0330
96)	CK	1160	10	El Mundo en Bogotá, Bogotá: 1200-0500
97)	PF	1160	10	R. Antena, Floridablanca
98)	ZV	1160	5	R. Las Lajas, Ipiales
99)	DT	1170	10	R. Alegría, Medellín: 24h
100)	GA	1170	10	R. Boyacá, Tunja
101)	JE	1170	1	Emisora Villa de Céspedes, Tuluá
102)	JY	1170	3	R. Lemayá, Guamo
103)	PB	1170	10	Ondas de Macondo, Valledupar
104)	LB	°1170	2.5	Meridiano 70, Arauca: 1100-0200
105)	NW	1170	15	La Voz de la Heróica, Cartagena: 1000-0530
106)	FX	1180	10	La Voz del Ruiz, Manizales: 24h
107)	GK	1180	20	R. Santander, Bucaramanga
108)	OV	°1180	15	R. Surcolombiana, Neiva: 24h
109)	CT	1190	10	La Voz de la Costa, Barranquilla: 1030-0500
9)	CV	1190	10	R. Cordillera, Bogotá: 24h
110)	—	1190	5	R. Barají, Sahagún
111)	OH	°1190	10	R. Mira, Tumaco
112)	BX	°1200	1	Ondas del Meta, Villavicencio
113)	CD	1200	1	Emis. Nueva Epoca, Fusagasugá
114a)	IJ	1200	1	R. Colibrí, Medellín
115)	LR	1200	10	La Villa del Sol, Sogamoso
116)	NF	°1200	10	R. Super, Cali: 24h
117)	ZW	1200	20	R. Almirante, Riohacha
118)	FR	°1210	2	La Voz del Huila, Neiva: 24h
119)	FF	1210	15	La Voz Amiga, Pereira: 24h
47)	VF	1220	10	R. Visión, Barranquilla
120)	AV	°1220	10	R. Cordobesa, Montería
121)	KR	1220	10	R. Juventud, Bogotá
122)	NM	1220	10	Emisora Cultural Bolívar, Ipiales
123)	MT	1220	1	Armonias de San Gil, San Gil
124)	IL	1230	5	La Voz de las Américas, Medellín
125)	LF	1230	1	R. Galerón, Acacias
126)	BE	1230	15	R. Internacional, Cúcuta
127)	BR	1230	10	R. Unica, Tunja
128)	LK	1230	10	R. Caldidad, Cali: 24h
32)	MJ	1230	5	R. Tribuna, Maicao
129)	TP	1230	1	R. Colina, Girardot
130)	FG	1240	10	La Voz del Comercio, Armenia
131)	GN	1240	5	Emisora Barrancabermeja
132)	JA	1240	1	R. Buenaventura
133)	MI	1240	1	La Voz del Cesar, Valledupar
80)	OK	1250	1	Emisoras ABC, Barranquilla: 24h
134)	CA	1250	10	R. Capital, Bogotá
135)	EM	1250	1	La Voz de Corozal, Corozal
66)	HS	1250	2.5	R. Reloj, Cúcuta: 24h
136)	HZ	1250	1	Emisora Mariana, Pasto
11)	DA	1260	5	Emis. Siglo Veinte, Medellín: 24h
137)	DV	1260	1	R. Cacique, Ibagué: 24h
22)	ET	1260	2	R. Visión, Cali: 24h
138)	HU	1260	1	R. Morgan, Isla San Andrés
139)	LX	°1260	3	R. Cinco, Villavicencio: 24h
90)	NO	1260	1	R. Duitama, Duitama: 1000-0300
140)	OU	1260	2.5	Ondas del Amazonas, Leticia
141)	KZ	1270	1	Onda Libre, Pereira: 0930-0515
142)	PJ	°1270	1	R. Tamboral, Río Sucio: 1000-0400
77)	TX	1270	1	R. Visión, Bucaramanga
34)	AQ	1270	1	R. Miramar, Cartagena: 24h
143)	OI	1280	1	La Voz del Puerto, Magangué
144)	LR	1280	1	R. Pasto, Pasto
145)	KN	1280	5	R. Sonorama, Bogotá: 24h
146)	MB	1280	1	R. Suroeste, Concordia
147)	NQ	1280	1	La Voz del Río Suárez, Barbosa
148)	EB	1290	5	La Voz del Turismo, Sta. Marta
149)	CM	1290	10	R. Sur, Pitalito
150)	EC	1290	1	R. Libertador, Cali
151)	HI	1290	5	La Voz de Garagoa, Garagoa: 0930-0400
152)	KY	1290	1	Ondas del Puerto, Girardot
153)	NY	²1290	1	R. Pipatón, Barrancabermeja: 24h
154)	TH	1290	1	R. Ritmos, Medellín: 24h
155)	IR	1300	1	La Voz de Urabá, Apartadó
31)	LD	1300	1	R. Reloj, Pereira: 24h
77)	NB	1300	1	R. Reloj, Bucaramanga: 24h
156)	OG	1300	1	La Voz de las Antillas, Cartagena
157)	DG	1310	1	Transmisora Río, Montería
158)	AK	1310	5	La Voz de la Patria, Barranquilla: 0900-0500
159)	LM	1310	5	R. Santa Bárbara, Santa Bárbara 1000-0500
160)	JD	1310	1	La Perla del Pacífico, Tumaco
24)	JZ	1310	5	R. Visión, Bogotá
161)	TQ	1310	10	R. Tasajero, Cúcuta: 1000-0600
162)	HT	1320	5	R. Guateque, Guateque: 1000-0300
163)	MS	1320	5	R. Regia, Barrancabermeja

	Call	kHz	kW	Name, location and h. of tr.
164)	NK	1320	1	R. Luna, Palmira
165)	ON	1320	1	La Voz del Tocarema, Girardot
166)	TA	1320	1	La Voz de la Independencia, Medellín: 24h
42)	FQ	°1330	5	La Voz del Pueblo, Pereira
167)	NL	1330	1	Transmisora Apolo, Bucaramanga
29)	AD	1330	1	R. Vigía, Cartagena: 24h
168)	IS	1340	1	R. Andagoya, Buenaventura
169)	BF	1340	1	La Voz del Norte, Cúcuta
59b)	FA	1340	1	R. Olímpica, Barranquilla: 24h
1c)	FB	1340	5	La Voz de la Sabana, Bogotá
170)	HY	1340	1	Transmisora Sucre, Sincelejo
171)	KD	1340	5	Armonias del Sur, Neiva
172)	NA	1340	1	La Voz de la Amistad, Pasto: 1100-0500
173)	DS	1350	1	Ondas de la Montana, Medellín
174)	EN	1350	1	R. La Fabulosa, Cali
175)	HL	1350	1	R. Festival, Ibagué
176)	HW	1350	2	Ecos del Río, Puerto Boyacá
177)	RP	1350	1	R. Perijá, Codazzi
178)	LO	1350	1	Brisas del Cauca, Caucasia
179)	OC	1350	1	Emisora Punta Betín, Sta. Marta
180)	OZ	°1350	2	La Voz del Yopal, Yopal: 0930-0300
181)	RA	1360	1	Ecos del Risaralda, Pereira
182)	TU	1360	1	R. Reloj, Cartagena: 24h
71)	GI	r1360	1	José A. Galán, Socorro
183)	NI	1370	1	R. Sabanas, Sincelejo: 24h
184)	NU	1370	1	Ecos de Rionegro: 1100-0500
185)	BD	1370	1	R. Guaimaral, Cúcuta
186)	FY	1370	1	R. Avenida, Espinal
187)	BO	1370	1	R. Piloto, Barranquilla
188)	EQ	°1370	1	La Voz del Cauca, Popayán
1d)	KX	1370	1	R. Mundial, Bogotá
189)	EJ	1380	1	Armonias del Palmar, Palmira: 1130-0300
190)	ID	1380	1	R. Mercante, Gigante
191)	LG	1380	1	La Voz de la Dorada, La Dorada
51)	MM	1380	1	R. Reloj, Valledupar: 24h
192)	LM	1380	1	R. Industrial, Medellín
193)	EE	1380	5	R. Triunfo de Boyacá, Tunja
194)	FO	1390	1	R. Luz, Manizales
195)	ZY	v1390	1	R. Lemas, Bucaramanga
196)	AS	1400	1	R. Variedades, Barranquilla
197)	BK	1400	1	La Voz de la Gran Colombia, Cúcuta
198)	HM	1400	1	La Voz de Calarcá, Calarcá
199)	IT	°1400	1	Ecos del Atrato, Quibdó: 1100-0400
200)	JJ	1400	1	R. Ipiales, Ipiales
201)	KM	1400	1.5	Emisora Mariana, Bogotá: 1100-0300
202)	LL	1400	1	R. Mía, Santa Bárbara
203)	TJ	1400	1	Ondas del Urrá, Montería
204)	DU	1410	1	Emisora Cultural, Medellín: 1130-0330
205)	EI	1410	10	R. Guadalajara, Buga: 1100-0300
206)	FS	1410	1	Ondas del Gualí, Honda
207)	TY	v1410	1	La Voz del Carare, Vélez
208)	AP	1420	5	R. Bahía, Cartagena: 24h
106)	HK	1420	1	R. Reloj, Manizales: 24h
209)	NR	1420	1	R. Guanentá, San Gil
210)	BH	1420	1	R. Magdalena, Santa Marta: 24h
211)	PO	1430	10	R. Majagual, Corozal
212)	BP	1430	1	Frec. 1430, Pamplona
213)	EG	1430	2	La Voz de Belalcázar, Popayán
214)	IU	°1430	1	Armonias del Ingrumá, Riosucio
215)	KU	°1430	1	La Voz de María "R. Kennedy", Bogotá: 1100-0400
216)	MF	1430	2	R. Venus, Puerto Berrío
217)	RL	1430	1.5	Antena de los Andes, Líbano: 1000-0300
117)	BZ	1440	1	Ondas de Riohacha, Riohacha
218)	EK	1440	1	R. Reloj, Tuluá: 24h
219)	BM	1440	1	La Voz de Honda, Honda
220)	GM	1440	1	R. Sogamoso, Sogamoso: 24h
221)	IB	°1440	1	La Voz del Caquetá, Florencia: 1000-0500
114b)	NZ	1440	1	R. Popular, Medellín
222)	PM	1440	1	R. Latinoamericana, Ciénaga
223)	PM	1440	5	R. Galeón, Sta. Marta
224)	HH	1450	1	Aires del Oriente, Floridablanca
225)	NL	1450	1	R. Sintonía, Villa María
226)	MX	1450	1	R. Mancomoján, Carmen de Bolívar
227)	TS	1460	1	R. Monumental, Villa del Rosario
228)	AL	1460	5	R. Sincelejo, Sincelejo
229)	BA	1460	1	La Voz de Pamplona, Pamplona: 1130-0200
230)	BQ	1460	1	R. Fundación: 1000-0400
231)	FL	1460	1	Atalaya Agustiniana, San Agustín
232)	JW	1460	2	Nuevo Continente, Bogotá: 24h
233)	TF	°1460	1	Ondas del Darién, Turbo
172)	ZU	1460	10	R. Nariño, Pasto: 1100-0500
234)	MN	1460	1	La Voz de Amalfi, Amalfi
235)	HQ	v1470	5	Emisora Valles Unidos, Pacho: 0900-0300
236)	IF	1470	1	R. Tres Fronteras, Puerto Assís
237)	TB	1470	2	Ondas de Ibagué, Ibagué: 1000-0400
28)	IM	1470	15	R. Ya, Medellín: 24h
238)	OD	1470	1	R. Rodadero, Santa Marta: 24h
239)	NT	1470	1	R. Pinta, Palmira: 24h
240)	SO	1470	1	Brisas del Tolima, Purificación
241)	FC	1480	1	R. Centinela, Pereira
105)	PX	1480	1	Brisas del Mar, Cartagena
242)	TC	1480	1	R. Sonsón, Sonsón
243)	TZ	v1480	1	R. Palonegro, Lebrija
244)	BS	1490	1	R. Orientación, Bogotá
245)	CL	1490	3	R. Garzón, Garzón: 1000-0300
246)	AY	v1490	1	Onda Nueva, Barranquilla
247)	OJ	1490	1	La Voz de San Marcos, San Marcos
22)	LJ	1500	5	R. Tigre, Cali: 24h
248)	MP	1500	1	La Voz de Aguachica, Aguachica
249)	TW	1500	1	R. Sumapaz, Fusagasugá
114c)	ZH	1500	1	R. Disco, Medellín
250)	HX	1510	1	La Voz Panamericana, Bucaramanga: 1000-0500
251)	LE	1510	1	R. Armero, Armero
252)	ZA	1510	1	R. Estrella, Armenia
253)	LI	1520	1	R. Latina, Bogotá: 1100-0500
254)	LQ	1520	1	R. Minuto, Barranquilla: 24h
255)	LS	1520	1	R. Popayán, Popayán
256)	MZ	1520	1	Ecos de la Sierra Flor, Sincelejo
257)	MA	1520	1	La Voz del Suroeste, Jericó
258)	GD	1530	1	Reina de Colombia, Chiquinquirá: 0900-0200
259)	PF	1530	1	Ritmos de Melgar, Melgar: 1100-0300
114d)	DN	1530	1	HJDN del Sistema Colibrí, Medellín
260)	JB	1530	1	R. Sevilla, Sevilla
261)	BV	v1540	1	R. Canoa, Cartagena: 1030-0530
262)	ZF	1540	1	R. Cóndor, Manizales
263)	HD	1540	1	La Voz del Petróleo, Barrancabermeja
264)	RQ	1540	2.5	R. Austral, Túquerres
265)	QD	1550	1	R. Reloj del Quindío, Calarcá: 24h
266)	CB	1550	5	R. 15-50, Voz Porteña, Barranquilla: 1000-0600
267)	LT	1550	5	R. Farallones, Cali: 1100-0500
268)	ZX	1550	1	R. Copacabana, Copacabana
269)	GY	1550	1	R. Magangué, Magangué
270)	ZI	1550	15	R. Fantasia, Bogotá: 24h
271)	CP	1560	2	R. Galaxia, Arbeláez: 1000-0300
272)	HE	1560	1	Voces Rovirenses, Málaga
273)	LP	1560	1	R. Espacial, Tuluá
274)	PZ	1560	1	R. Codazzi, Codazzi
275)	XZ	1560	1	Nuevo Medellín, Poblado
276)	ZT	1570	1	La Voz de los Fundadores, Manizales
277)	HF	1570	1	R. Andina, Girón
278)	IP	1570	1	La Voz de la Música, Envigado
279)	KF	1580	1	Armonias Zipaquireñas, Zipaquirá
280)	LC	1580	1	La Voz del Banco, El Banco
281)	NN	1580	1	Transmisora Universal, Cúcuta
282)	OE	1580	1	R. Miraflores, Rovira
5)	QZ	1580	1	R. Príncipe, Barranquilla: 24h
283)	EA	1590	1	R. Lumbí, Mariquita
284)	TP	1590	1	R. Iconozo, Iconozo
285)	JQ	1590	1	R. Zarzal, Zarzal
286)	JH	1600	1	R. Ciudad Milagro, Armenia: 24h

Shortwaves: Call: HJ--; *=inactive; v=varying frequency; h. of tr: 1100-0500 exc. where indicated.

	Call	kHz	kW	Name and h. of tr.
24)	EU	v4755	1	Em. Nuevo Mundo, Bogotá: 24h
215)	KW	v4775	1	La Voz de María "R. Kennedy", Bogotá: 1100-0400

	Call	kHz	kW	Name, location and h. of tr.
51)	VG	r4818	1	R. Guatapurí, Valledupar: 0930-0600
142)	PI	4835	1	R. Tamboral, Río Sucio: 1000-0400
27)	GF	4845	1	R. Bucaramanga: 1000-0400
88)	FV	4855	1	R. Neiva, Neiva
54)	LZ	v4865	1	La Voz del Cinaruco, Arauca: 24h
43)	LW	4875	5	Ecos del Combeima, Ibagué: 24h
112)	IG	v4885	1	Ondas del Meta, Villavicencio
59a)	AG	4905	2	Emis. Atlántico, Barranquilla: 24h
104)	JU	v4925	2.5	Em. Meridiano 70, Arauca: 1100-0200
74)	DE	4935	1	R. Villavicencio, Villavicencio
87)	DH	4945	2.5	R. Colosal, Neiva: 24h
2)	CQ	4955	50	R. Nacional, Bogotá: 0930-0500
60)	AE	4965	5	R. Sante Fé, Bogotá: 24h
95)	QA	4975	2.5	Ondas del Orteguaza, Florencia: 0830-0330
108)	OX	5010	2.5	R. Surcolombiana, Neiva: 24h
199)	FW	v5020	1	Ecos del Atrato, Quibdó: 1100-0400
92)	OT	v5030	1	Brisas del Citará, Quibdó
221)	IC	5035	0.5	La Voz del Caquetá, Florencia: 1000-0500
139)	OW	v5040	3	R. Cinco, Villavicencio: 24h
180)	PV	5050	1	La Voz de Yopal, Yopal
4c)	GC	5075	25	R. Sutatenza, Bogotá: 0900-0400
4c)	GG	5095	50	R. Sutatenza, Bogotá: 0900-0400
3)	HA	v5985	10	Transm. de la Independencia, Tunja
42)	GR	5995	1	La Voz del Pueblo, Pereira
13)	GB	6000	2	R. Super, Medellín
111)	OY	6015	1	R. Mira, Tumaco: 1100-0500
2)	ZJ	v6030	25	R. Nacional, Bogotá: 0930-0500
26)	LB	v6040	10	La Voz del Tolima, Ibagué: 1030-0400
46)	EX	6055	5	R. Pacífico, Cali
48)	AX	6065	5	R. Super, Bogotá: 24h
4c)	ID	6075	10	R. Sutatenza, Bogotá: 0900-0400
233)	TF	6085	1	Ondas del Darién, Turbo
53)	IW	6095	5	La Voz del Centro, Espinal: 0900-0530
40)	IA	6115	1	La Voz del Llano, Villavicencio: 0900-0500
116)	—	v6120	10	R. Super, Cali: 24h
9)	KE	6125	1	R. Continental, Bogotá: 24h
188)	EQ	6145	1	La Voz del Cauca, Popayán
118)	FR	6150	1	La Voz del Huila, Neiva: 24h
1b)	KJ	v6160	10	Emi. Nueva Granada, Bogotá: 24h
65)	KF	6170	1	La Voz de la Selva, Florencia
2)	OO	6180	25	R. Nacional, Bogotá
87)	OQ	6190	5	La Voz de los Centauros, Villavicencio: 24h
10)	EZ	6195	1	La Voz de Cali: irr.
2)	ZM	v9635	25	R. Nacional, Bogotá: 0930-0500
2)	ZK	v9685	25	R. Nacional, Bogotá
2)	ZN	*11795	25	R. Nacional, Bogotá
2)	ZO	11825	25	R. Nacional, Bogotá
2)	ZP	15335	25	R. Nacional, Bogotá
2)	ZQ	*17885	25	R. Nacional, Bogotá

CARACOL (Primera Cadena Radial Colombiana)

ADDR: Ap.A. 9291 (Calle 19 No. 8-48), Bogotá, D.E.
L.P: Pte: Fernando Londoño H. Vice-Pres: Willy Vargas & Julio Nieto B. Dir. Nal. de la Cadena: Eucario Bermúdez. Gte.Tec: Ing. Mario Fric.
STATIONS: Basic network: 18), 22), 24), 31), 47), 66), 77), 91), 106), 137), 144), 157), 183), 208), 210), 255).
Affiliated st's: 34 st's. **R. Reloj:** 15 st's. **R. Visión:** 5 st's. **Nucleo musical:** 18), 36), 114c).

TODELAR (Circuito Todelar de Colombia)

ADDR: Ap.A. 1972 (Calle 42 Norte No. 6N-21), Cali (Valle).
L.P: Pte: B. Tobón de la Roche. Mgr: B. Tobón Jr. Dir.Tec: G. Escobar. Gte.Cml: Alberto Orduz G.
STATIONS: 7), 9), 10), 17), 26), 28), 29), 37), 79), 80), 119), 153), 199) + 28 others.

RCN (Radio Cadena Nacional)

ADDR: Ap.A. 1244 (Edif. Coltejer piso 12), Medellín (Ant).
L.P: Pte: C. Ardila L. Gte: R. Echavarria E. Dir.Tec: H. Dario Restrepo E.
STATIONS: 1), 8), 11), 19), 30), 34), 42), 53), 56), 74), 107), 120), 128), 130), 131), 172), 188), 220) + 19 others.

SUPER RADIO

ADDR: Ap.A. 23316 (Cra. 18 No. 39a-11), Bogotá, D.E.
STATIONS: 11), 14), 20), 40), 43), 48), 61), 72), 81), 88), 105), 116), 129), 132), 158), 181), 185), 190), 252), 256), 263), 271), 276), 283), 286).

State abbreviations: (Departmentos, Indendencias y Comisarías). Ant=Antioquia; Atl=Atlántico; Bol=Bolívar; Boy=Boyacá; Caq=Caquetá; Cor=Córdoba; Cun=Cundinamarca; D.E.=Distrio Especial; Gua=Guajira; Mag=Magdelena; Nar=Narino; NS=Norte de Santander; Put=Putumayo; Qui=Quindio; Ris=Risaralda; SS=Santander del Sur; San Andrés; Tol=Tolima; Valle=Valle del Cauca.
N.B: D.E. and Valle can be used for postal purposes. In all other cases full name is preferred.
Ap.A.=Apartado Aéreo.

Addresses and other information:
1acd) Cra. 14A No. 35-85, Bogotá, D.E. 1b) Ap.A. 4984, Bogotá, D.E. – Gte: Gabriel González.
2) Edif. de Inravisión-CAN, Av. El Dorado, Bogotá, D.E. – Dir: Orlando Rovira.
3) Edif. Municipal, Of. 411, Tunja (Boy).
4a-e) Acción Cultural Popular, R. Sutatenza, Ap.A. 7170, Bogotá, D.E. – Gte: Jardani Suárez R. Dir.Tec: Carlos Lulle.
4a) Pichincha y Junín No. 48-14 P. 13, Medellín (Ant).
4b) Calle 11 No. 1-16, Cali (Valle) – Gte: Juan Delgado P.
4c) Calle 20 No. 9-45, Bogotá, D.E. – Gte: Jardani Suárez.
4de) Calle 72 No. 36-186, Barranquilla (Atl) – Gte: Jorge H. Klee.
5) Ap.A. 3143, Barranquilla (Atl) – Gte: Roberto Esper R.
6) Av. 6N No. 14N-31, Cali (Valle) – Owner: José A. Vanegas.
7) Ap.A. 67, Manizales (Caldas) – Gte: Javier Giraldo N.
8) Ap.A. 540, Santa Marta (Mag) – Gte: Julio Sánchez T.
9) Ap.A. 95-175, Bogotá, D.E. – Gte: J. Correat.
10) Ap.A. 1972, Cali (Valle) – Gte: B. Tobón de la R.
11) Ap.A. 1244, Medellín (Ant) – Gte: Dario Alvarez R.
12) Calle 16 No. 9-45, Bogotá, D.E. – Gte: Víctor M. Londoño.
13) Ap.A. 3899, Medellín (Ant) – Gte: Henry Pava C.
14) Ap.A. 154, Barranquilla (Atl) – Gte: Emilio Fortou B.
15) Ap.A. 19823, Bogotá, D.E. – Gte: Efraín Páez E.
16) Ap.A. 375, Pasto (Nar) – Gte: Gonzalo Ardila.
17) Ap.A. 51, Valledupar (Cesar) – Gte: Manuel Pineda B.
18) Ap.A. 718, Medellín (Ant) – Gte: J. Tobón de la R.
19) Ap.A. 1883, Barranquilla (Atl) – Gte: J. Arrubla.
20) Ap.A. 4436, Cali (Valle) – Gte: J. Córdoba M.
21) Calle 35 No. 18-33, Bucaramanga (SS) – Gte: Gustavo Serrano F.
22) Ap.A. 19-41, Cali (Valle) – Gte: Eduardo Rueda S.
23) Ap.A. 757, Santa Marta (Mag) – Gte: Roberto Esper R.
24) Ap.A. 9291, Bogotá, D.E.
25) Cra. 14 No. 2-25, Buga (Valle) – Gte: Fabio Tejada P.
26) Ap.A. 780, Ibagué (Tol) – Gte: Luis V. González.
27) Ap.A. 572, Bucaramanga (SS) – Gte: Jaime Sorzano B.
28) Ap.A. 1431, Medellín (Ant) – Gte: Eduardo Ortiz E.
29) Ap.A. 1771, Cartagena (Bol) – Gte: B. Tobón de la R.
30) Calle 5 No. 10-42, Cúcuta (NS) – Gte: Alvaro Fonseca.
31) Calle 18 No. 8-47, Pereira (Ris) – Gte: Augusto Salazar.
32) Calle 13 No. 13-44, Maicao (Gua) – Gte: Gilberto Leal.
33) Calle 23 No. 5-85, Bogotá, D.E. – Gte: Alfonso Gaitán.
34) Ap.A. 264, Cartagena (Bol) – Gte: Joaquín Franco E – **F.PL:** MW 50kW, SW.
35) Ap.A. 454, Pasto (Nar) – Gte: C. Chaves.
36) Ap.A. 10556, Bogotá, D.E. – Gte: Armando Osorio.
37) Ap.A. 274, Neiva (Huila) – Gte: Rafael Navarro T.
38) Calle 10 No. 17-73, Barrancabermeja (SS) – Gte: Sebastián Ayala B.
39) Ap.A. 2094, Medellín (Ant) – Pte: Samuel Parra B.
40) Ap.A. 2075, Villavicencio (Meta) – Owner: Jairo E. Cifuentes.
41) Cra. 3 No. 30-12, Montería (Cor) – Gte: José V. Muskus.
42) Ap.A. 244, Pereira (Ris) – Gte: Augusto Torres.
43) Ap.A. 1778, Ibagué (Tol) – Gte: Sra. Dilla C. de Pava.
44) Ap.A. 1030, Duitama (Boy) – Gte: C. Rodrígez R.
45) Cra. 27, 35-53, Bucaramanga (SS) – Gte: Mrs. G. de Blanco.
46) Ap.A. 2180, Cali (Valle) – Gte: Alvaro Escobar.

47) Ap.A. 1688, Barranquilla (Atl) – Gte: J.D. Sánchez.
48) Ap.A. 23316, Bogotá, D.E. – Gte: Humberto Pava C.
49) Ap.A. 97, Lorica (Cor) – Gte: E. Sanchez Jr.
50) Ap.A. 617, Armenia (Qui) – Gte: L. Fernando.
51) Cra. 9 No. 5-02, Valledupar (Cesar) – Gte: Ciro Habib M.
52) Ap.A. 322, Medellín (Ant) – Gte: Luis G. Gómez A.
53) Cra. 7 No. 8-58, El Espinal (Tol).
54) Calle 22 No. 20-38, Arauca – Gte: Alfredo Matiz E.
55) Ap.A. 280, Palmira (Valle) – Gte: O. Burkhardt C.
56) Ap.A. 244, Manizales (Caldas) – Gte: A. Torres.
57) Ap.A. 548, Turbo (Ant) – Gte: F. Patiño.
58) Ap. Nal. 18, Chiquinquirá (Boy) – Gte: A. Rocha Z.
59a) Ap.A. 51005, Barranquilla (Atl) – Gte: A.J. de Castro.
59bc) Ap.A. 51266, Barranquilla (Atl) – Gte: Félix Vargas.
60) Ap.A. 9339, Bogotá, D.E. – Pte: Sra. Luisa Vda. de Bernal. **F.PL:** 30kW.
61) Ap.A. 497, Montería (Cor) – Gte: Amparo Gómez G.
62) Calle 38 No. 31-21, Villavicencio (Meta) – Gte: Enrique Zambrano.
63) Cra. 3 No. 13-11, La Dorada (Caldas) – Gte: R. Barco.
64) Av. 20 de Julio, San Andrés Isla.
65) Cra. 13 No. 13-16, Florencia (Caq) – Gte: J. Sandoval.
66) Ap.A. 519, Cúcuta (NS) – Gte: Alfonso Barrientos C.
67) Cra. 4a No. 8B-22, Cartago (Valle) – Gte: Omar Suárez A.
68) Cra. 11 No. 14-37, Sogamoso (Boy) – Gte: César Rodríguez G.
69) Ap.A. 19, Ocaña (NS) – Gte: J. Cabrales R.
70) Cra. Restrepo Escobar No. 1-62, Andes (Ant) – Gte: Hernán Ramírez Z.
71) Calle 16 No. 13-01, Socorro (SS) – Gte: Helio Zambrano.
72) Cra. 8 No. 17-56, Planeta Rica (Cor) – Gte: Magola Gómez P.
73) Ap.A. 1178, Medellín (Ant) – Gte: H. Mesa R.
74) Ap.A. 2014, Villavicencio (Meta).
75) Ap.A. 448, Sincelejo (Sucre) – Gte: Juan Guerra T.
76) Ap.A. 926, Ibagué (Tol) – Gte: J.M. Toro P.
77) Ap.A. 223, Bucaramanga (SS) – Gte: Rafael E. Pérez.
78) Cra. 10 No. 19-83, Tunja (Boy) – Gte: Alberto Rodríguez.
79) Ap.A. 2, Cartago (Valle) – Gte: Alvaro Escobar M.
80) Ap.A. 2010, Barranquilla (Atl) – Gte: Leónidas Otálora S.
81) Ap.A. 503, Magangué (Bol) – Gte: R. Cure A.
82) Ap.A. 28508, Bogotá, D.E. – Gte: Julio E. Sánchez V.
83) Ap.A. 137, Neiva (Huila) – Gte: Ernesto Durán C.
84) Ap.A. 635, Pasto (Nar) – Gte: A. Ortega P.
85) Av. 4 No. 5-02, Cúcuta (NS) – Gte: Clemente Rodríguez.
86) Ap.A. 4148, Cali (Valle) – Gte: Roberto Giraldo.
87) Ap.A. 2472, Villavicencio (Meta) – Gte: C. Barrera M.
88) Ap.A. 362, Girardot (Cun) – Gte: José C. Cifuentes G.
89) Cra. 4 No. 8-46, Anserma (Caldas) – Gte: A. Acevedo.
90) Ap.A. 1064, Duitama (Boy) – Gte: G. Benavides G.
91) Edif. Banco Cafetero, Armenia (Qui) – Gte: Leonel Dávila.
92) Cra. 3 No. 21-15, Quibdó (Chocó) – Gte: J. Betancourt.
93) Ap.A. 148, Montería (Cor) – Gte: A. Jiménez.
94) Cra. 53, No. 55-166, Barranquilla (Atl) – Gte: R. Esper R.
95) Ap.A. 209, Florencia (Caq) – Gte: Jorge D. Santos C.
96) Ap.A. 17161, Bogotá, D.E. – Gte: Alvaro Castaño C.
97) Calle 5 No. 8-13, Floridablanca (SS).
98) Santuario Las Lajas, Ipiales (Nar) – Gte: J. Mejía M.
99) Cra. 50 No. 52-75, Medellín (Ant).
100) Cra. 10 No. 19-83, Tunja (Boy) – Gte: Alberto Rodriguez.
101) Ap.A. 126, Tuluá (Valle) – Gte: A. Escobar.
102) Guamo (Tol) – Gte: C. Sarmiento.
103) Ap.A. 492, Valledupar (Cesar) – Gte: A. Campo S.
104) Cra. 7 No. 9-00, Arauca – Gte: Luis Castañeda P.
105) Ap.A. 403, Cartagena (Bol) – Gte: J. Cantillo. **F.PL:** 30kW on 1170kHz.
106) Ap.A. 335, Manizales (Caldas) – Gte: G. Aristizábal.
107) Ap.A. 1100, Bucaramanga (SS) – Gte: A. Fonseca.
108) Ap.A. 496, Neiva (Huila) – Gte: J.A. Ortiz B.
109) Ap.A. 2364, Barranquilla (Atl) – Gte: G. Forero S.
110) Calle 15 No. 6-95, Sahagún (Cor) – Gte: R.A. Muskus.
111) Ap.A. 165, Tumaco (Nar) – Gte: Félix Escota E. **F.PL:** Leave SW.
112) Ap.A. 2196, Villavicencio (Meta) – Gte: C. Cifuentes.
113) Cra. 6 No. 7-56, Fusagasugá (Cun).
114a-d) Ap.A. 4552, Medellín (Ant) – 114a) Gte: Luis F. Arboleda H – 114b) Gte: Wm. E. Hallaby – 114c) Gte: Gabriel González.
115) Ap. 170, Sogamoso (Boy) – Gte: Clemente Rodríguez.
116) Calle 18N No. 5N-21, Cali (Valle) – Gte: Alvaro Pava C.
117) Ap.A. 3, Riohacha (Gua) – Gte: A. Useche R.
118) Ap.A. 150, Neiva (Huila) – Gte: R. Navarro T.
119) Ap.A. 89, Pereira (Ris) – Gte: Fabio Palau R.
120) Calle 30 Cra. 3, Montería (Cor) – Gte: José Pupo G.
121) Ap.A. 10951, Bogotá, D.E. – Gte: Fabio Espinosa.
122) Cra. 8 No. 4-48, Ipiales (Nar) – Gte: L. Hortencio E.
123) Cra. 10 No. 11-46, San Gil (SS) – Gte: G. Reyes D.
124) Cra. 51 No. 58-26, Medellín (Ant) – Gte: José Nicholls V.
125) Calle 13 No. 15-67, Acacias (Meta).
126) Ap.A. 1300, Cúcuta (NS) – Gte: L.E. Mantilla S.
127) Edif. de la Beneficencia Ofc. 704, Tunja (Boy) – Gte: Luis A. López.
128) Ap.A. 5400, Cali (Valle) – Gte: Alvaro Escobar.
129) Ap.A. 283, Girardot – Gte: Enrique Castro C.
130) Ap.A. 556, Armenia (Qui) – Gte: A. Torres.
131) Ap.A. 23, Barrancabermeja (SS) – Gte: C. Dominguez.
132) Cra. 1 No. 5a-05, Buenaventura (Valle) – Gte: Roberto Giraldo S.
133) Ap.A. 250, Valledupar (Cesar) – Gte: R. Achavarria.
134) Ap.A. 14427, Bogotá, D.E – Gte: A. Peñaranda.
135) Cra. 24 No. 29-50, Corozal (Sucre) – Gte: N. Martelo.
136) Calle 18 No. 28-87, Pasto (Nar) – Gte: R.P. Jaime Alvarez.
137) Ap.A. 1094, Ibagué (Tol) – Gte: Jesús M. Arcila.
138) Club Hansa, San Andrés Isla – Gte: Manuel Duque.
139) Ap.A. 2284, Villavicencio (Meta) – Gte: Germán Padilla P.
140) Anaconda Hotel, Leticia (Amazonas) – Gte: J. Rondón M.
141) Ap.A. 520, Pereira (Ris) – Gte: César A. López.
142) Cra. 5a No. 30-54, Quibdó (Chocó) – Gte: Oswaldo Martínez C.
143) Cra. 1 No. 14-39, Magangué (Bol) – Gte: A. Fernández.
144) Calle 19 No. 27-54, Pasto (Nar) – Gte: G. Ardila.
145) Ap.A. 7766, Bogotá, D.E – Gte: José A. Vanegas.
146) Cra. 3 Calles 2 y 3, Concordia (Ant) – Gte: B. Sánchez.
147) Calle 7 No. 1-03, Barbosa (SS) – Gte: E. Fonseca.
148) Ed. Palis, Apto. 2A, El Rodadero, Sta. Marta (Mag).
149) Cra. 4 No. 7-14, Pitalito (Huila) – Pte: M. Castro T.
150) Cra. 3 No. 15-80, Cali (Valle) – Gte: Helena de Morales.
151) Cra. 9 No. 8-65, Garagoa (Boy).
152) Ap.A. 416, Girardot (Cun) – Gte: Jairo E. Cifuentes.
153) Cra. 14 No. 11-05, Barrancabermeja (SS) – Gte: G. Serrano F.
154) Ap.A. 4300, Medellín (Ant) – Gte: Marco F. Eusse.
155) Cra. 10 Calle 79, Apartadó (Ant).
156) Ap.A. 2840, Cartagena (Bol) – Gte: Luis A. Ortiz M.
157) Ap.A. 364, Montería (Cor) – Gte: Fco. T. Zubiria.
158) Ap.A. 231, Barranquilla (Atl) – Gte: E. Vassallo G.
159) Ap.A. 3854, Medellín (Ant) – Gte: I. Ramírez B.
160) Ap.A. 158, Tumaco (Nar) – Gte: Jorge Escallón.
161) Ap.A. 1282, Cúcuta (NS) – Gte: Luis A. Tobito A.
162) Cra. 7 No. 9-57, Guateque (Boy) – Gte: E. Daza P.
163) Ap.A. 578, Barrancabermeja (SS) – Gte: A. Eljach M.
164) Cra. 29 No. 29-09, Palmira (Valle) – Gte: E. Luna y S.
165) Ap.A. 457, Girardot (Cun).
166) Ap.A. 4910, Medellín (Ant) – Gte: C. Gómez de Cardona.
167) Calle 37 No. 23-34, Of. 206, Bucaramanga (SS) – Gte: Alfonso Ojeda B.
168) Calle 6 No. 2-00, Buenaventura (Valle) – Gte: A. Escobar.
169) Av. 10 No. 10-38, Cúcuta (NS) – Gte: M. Jordán P.
170) Edif. Arturo Cumplido, Sincelejo (Sucre) – Gte: Rafael Hernández M.
171) Ap.A. 192, Neiva (Huila).
172) Ap.A. 516, Pasto (Nar) – Gte: R. Echavarria.
173) Ap.A. 5214, Medellín (Ant) – Gte: Hugo Pérez A.
174) Ap.A. 2145, Cali (Valle) – Gte: A. Salazar P.
175) Calle 14 No. 2-36, P.5, Ibagué (Tol) – Gte: Milton Rodríguez.

176) Cra. 2 No. 2-43, Puerto Boyacá (Boy) – Gte: M. Caraballo.
177) Cra. 16 No. 11-102, Codazzi (Cesar).
178) Cra. 2 Calle 4, Caucasia (Ant).
179) Calle 14, No. 7-97, Sta. Marta (Mag).
180) Cra. 9 No. 7-17, Yopal.
181) Cra. 7 No. 15-10, Pereira (Ris) – Gte: J. Salazar R.
182) Calle de la Cruz No. 9-89, Cartagena (Bol) – Gte: A. Navarro.
183) Calle 24 No. 18-31, Sincelejo (Sucre) – Gte: Nadin Miserque A.
184) Calle 48 No. 51-32, Rionegro (Ant) – Gte: Ignacio Gómez.
185) Calle 6 con Av. 4, Cúcuta (NS) – Gte: C. Ramírez P.
186) Calle 11 No. 4-10, Espinal (Tol) – Gte: Antonio Forero B.
187) Ap.A. 320, Barranquilla – Gte: Arturo J. de Castro.
188) Ap.A. 535, Popayán (Cauca) – Gte: A. Escobar.
189) Ap.A. 201, Palmira (Valle) – Gte: J. Bejarano D.
190) Gigante (Huila) – Gte: José R. Quintero.
191) Ap.A. 34, La Dorada (Caldas) – Gte: M. Caraballo M.
192) Cra. 80 No. 50-90, Medellín (Ant) – Gte: Alvaro Monroy G.
193) Ap.A. 1186, Tunja (Boy) – Gte: C. Rodríguez.
194) Ap.A. 284, Manizales (Caldas) – Gte: Iván Hoyos O.
195) Calle 37 No. 29-34, Bucaramanga (SS) – Gte: Carlos M. Soto.
196) Ap.A. 403, Barranquilla (Atl) – Gte: Helí Alba A.
197) Ap.A. 1303, Cúcuta (NS) – Gte: J. Neira R.
198) Ap.A. 725, Calarcá (Qui) – Gte: A. Torres.
199) Ap.A. 78, Quibdó (Chocó) – Owner: E. Gaitán O.
200) Cra. 6 No. 10-60, Ipiales (Nar) – Gte: E. Concha S.
201) Ap.A. 5397, Bogotá, D.E – Gte: Manuel Cadierno P.
202) Los Almendros, Santa Bárbara (Ant).
203) Av. 1 No. 32-50, Montería (Cor) – Gte: M. Pianetta.
204) Ap.A. 1226, Medellín (Ant) – Gte: J. Jaramillo A.
205) Cra. 14 No. 5-77, Buga (Valle) – Gte: José M. González.
206) Ap.A. 536, Honda (Tol).
207) Cra. 3 No. 3-42, Vélez (SS) – Gte: Enrique Correa F.
208) Calle Román 5-45, Cartagena (Bol) – Gte: E. Emiliani.
209) Cra. 10 No. 13-68, San Gil (SS) – Gte: Mario G. Rojas.
210) Ap.A. 1240, Santa Marta (Mag) – Gte: A. Díaz G.
211) Ap.A. 542, Sincelejo (Sucre).
212) Calle 7 No. 5-92, Pamplona (NS) – Dir: R. Parada R.
213) Ap.A. 759, Popayán (Cauca) – Gte: C. Valencia M.
214) Calle 6 No. 5-05, Riosucio (Caldas) – Gte: M. Vinasco.
215) Ap.A. 16029, Bogotá, D.E – Gte: Rvdo. P.F.J.V. Echeverri, S.J.
216) Calle 6 No. 1-23, Puerto Berrío (Ant) – Gte: Fco. J. Betencourt.
217) Cra. 8 Calle 4, Líbano (Tol) – Gte: E. Herrera.
218) Ap.A. 130, Tuluá (Valle) – Gte: E. Rueda S.
219) Trans. 5 No. 16a-55, Honda (Tol) – Gte: Luis V. González.
220) Ap.A. 019, Sogamoso (Boy) – Gte: G. Gonzalez R.
221) Ap.A. 150, Florencia (Caq) – Gte: L.E. Romero M.
222) Calle 12 No. 10b-55, Cienaga (Mag).
223) Calle 17 No. 5-76, Sta. Marta (Mag) – Gte: R. Ahumada.
224) Calle 6 No. 8-10, Floridablanca (SS) – Gte: A.T. de Ayala.
225) Cra. 4 No. 10-42, Villa María (Caldas) – Gte: Iván Hoyos O.
226) Calle 25 No. 48-39, Carmen de Bolívar (Bol) – Gte: Manuel B. Romero.
227) Calle 7 No. 6-40, Villa del Rosario (NS) – Gte: S. Ayala O.
228) Cra. 23 Calle 22, Sincelejo (Sucre) – Gte: Sra. Ligia de Gómez.
229) Ap.A. 1044, Pamplona (NS) – Gte: Pbro. E. Peinado.
230) Calle 15 No. 1-19, Fundación (Mag).
231) Calle 3 Cra. 4, San Agustin (huila) – Gte: Pbr. Jorge E. Vargas.
232) Ap.A. 10900, Bogotá, D.E – Gte: Darío Quiroga.
233) Ap.A. 550, Turbo (Ant) – Gte: J. Betancourt C.
234) Amalfi (Ant) – Gte: Gerardo Montoña.
235) Cra. 15 No. 3-58, Pacho (Cun) – Gte: Luis A. Rocha.
236) Ap.A. 9, Puerto Assís (Put) – Gte: C.A. Herrera R.
237) Ap.A. 589, Ibagué (Tol) – Gte: L.E. Martínez R.
238) Ap.A. 780, Santa Marta (Mag) – Gte: G. Castellanos.
239) Cra. 26a No. 28-43, Palmira (Valle) – Gte: H. Kuri K.
240) Calle 6 No. 5a-62, Purificación (Tol).
241) Ap.A. 221, Pereira (Ris) – Gte: Ricardo Ilian B.
242) Calle 7 No. 7-54, Sonsón (Ant) – Gte: J. Cardona H.
243) Ap.A. 322, Bucaramanga (SS) – Gte: Alvaro Fonseca.
244) Cra. 7 No. 21-88, Bogotá, D.E – Gte: J. Betencourt.
245) Cra. 7 No. 7-05, Garzón (Huila) – Admor: R. Silva V.
246) Ap.A. 2647, Barranquilla (Atl) – Gte: Tomás E. Alba.
247) Cra. 28 Calle 18, San Marcos (Sucre) – Gte: L. Zuleta.
248) Aguachicha (Cesar) – Gte: M. Ignacio Gómez.
249) Calle 8 No. 6-53, Fusagasugá (Cun) – Gte: V. Velásquez.
250) Ap.A. 432, Bucaramanga (SS) – Gte: G. Ayala O.
251) Cra. 15 No. 11-50, Armero (Tol) – Gte: C. Cifuentes M.
252) Ap.A. 617, Armenia (Qui) – Gte: Juan Zuluaga H.
253) Ap.A. 11279, Bogotá, D.E – Gte: H. Segura.
254) Ap.A. 3581, Barranquilla (Atl) – Gte: G. Farah D.
255) Ap.A. 770, Popayán (Cauca) – Gte: Hembert Paz G.
256) Ap.A. 189, Sincelejo (Sucre) – Gte: R. Angulo M.
257) Calle 7 Cras. 3 y 4, Jericó (Ant).
258) Ap.A. 42, Chiquinquirá (Boy) – Gte: A. Madero.
259) Ap.A. 14231, Bogotá, D.E – Pte: F. Bernal C.
260) Cra. 51 No. 49-21, Sevilla (Valle) – Gte: O. Salazar J.
261) Ap.A. 313, Cartagena (Bol) – Gte: Gerardo Nieto.
262) Ap.A. 441, Manizales (Caldas) – Gte: M.J. Sanz B.
263) Cra. 18 No. 12-06, Barrancabermeja (SS) – Gte: Eduardo García R.
264) Calle 17 Cra. 13, Tuquerres (Nar).
265) Calle 23 No. 39-43, Calarcá (Qui) – Gte: H. Pineda.
266) Ap.A. 1643, Barranquilla (Atl) – Gte: Plutarco E. Barraza-O.
267) Ap.A. 1061, Cali (Valle) – Gte: G. Rodríguez O.
268) Palacio Municipal, Copacabana (Ant) – Gte: A. Castro R.
269) Ap.A. 554, Magangué (Bol) – Gte: José M. de León.
270) Ap.A. 90221, Bogotá, D.E – Gte: Alvaro Monroy G.
271) Cra. 4, No. 4-51, Arbeláez (Cun) or: Av. 37 No. 75-84, Bogotá – Gte: Julio H. Castillo.
272) Cra. 7 No. 12-11, Málaga (SS) – Gte: Constantino Paz.
273) Ap.A. 149, Tuluá (Valle) – Gte: A. Escobar.
274) Calle 14 No. 13A-04, Codazzi (Ces).
275) Calle 8 No. 33-35, Poblado (Ant).
276) Cra. 23 No. 30-49, Manizales (Caldas) – Gte: Octavio Jaramillo.
277) El Palenque, Girón (SS) – Gte: Carlos Martínez.
278) Calle 21 No. 12-37, Envigado (Ant) – Gte: A. Toro P.
279) Cra. 8 No. 3-35, Zipaquirá (Cun) – Gte: Pedro E. Rozo.
280) Ap.A. 89, El Banco (Mag).
281) Ap.A. 720, Cúcuta (NS) – Gte: G. Camargo N.
282) Cra. 2, No. 3-74, Rovira (SS).
283) Mariquita (Tol).
284) Cra. 5 No. 7-10, Iconozo (Tol).
285) Cra. 10 No. 8-54, Zarzal (Valle) – Gte: Tomás Bernal.
286) Ap.A. 768, Armenia (Qui) – Gte: Lorenzo Uribe S.

ECUADOR

L.T: GMT–5h – **Pr.L:** Spanish, Quechua – **E.C:** a/c 60, 110/220V (yes).

INSTITUTO ECUATORIANO DE TELECOMUNICACIONES (IETEL)

ADDR: Casilla 3066, Quito. **Cable:** Ietel.
L.P: Dir. of Frequency Division: Carlos A. Cajiao V., Tecrnel Av. (S.P.).

ASOCIACION ECUATORIANA DE RADIODIFUSION

ADDR: Apt. 2246, Quito. **Te:** 522520.
L.P: Pres: E. Cevallos C.

The following list is subject to alterations. A new frequency plan will be effective in the near future. Channels will be assigned to the coverage area of each station (local, regional and exclusive channels).

STATIONS: Call HC —
Mediumwaves: °) Shortwaves, v=varying fq. *)=inactive.

	Call	kHz	kW	Name, location and h. of tr.
1)	FA2	540	25	R. Tropicana, Guayaquil: 24h
2)	GB1	°550	10	R. Nal. Espejo, Quito
3)	BN2	560	50	R. Mambo: 1100-0500
4)	RM1	570	1	R. Musical, Quito: 24h
5)	PC2	580	0.5	R. El Tiempo, Guayaquil
6)	SP1	590	1	R. Fiesta, Quito: 24h
8)	RH2	605	10	R. Huancavilca, Guayaquil: 24h
10	MJ1	°615	10	Em. Gran Colombia, Quito: 1045-0600
11)	RF3	625	3	R. Fénix, Zaruma: 1100-0400
12)	HA2	°635	5	Ondas Quevedeñas, Quevedo: 2300-0300
13)	XY1	°640	50	R. Nal. del Ecuador, Quito: 1030-0415
14)	FD4	°650	10	R. Visión de Manta, Manta
15)	LG2	660	10	R. Carrousel, Guayaquil
16)	FF1	°660	1.2	R. Jesús del Gran Poder, Quito
17)	FM2	665	0.4	R. Ventanas, Ventanas
18)	VP2	°675	10	Sistema de Ems. Atalaya, Guayaquil: 1100-0500
19)	FA4	690	5	La Voz de Manabí, Portoviejo
20)	JB1	°690	30	La Voz de Los Andes, Quito: 1100-0400
21)	RS2	695	50	R. Sucre, Guayaquil
22)	GB4	r715	5	La Voz de Portoviejo, Portoviejo: 1000-0500 (nom.720)
23)	IC1	720	5	R. Municipal, Quito: 1445-0400
24)	FA2	730	10	R. Guayaquil: 24h
25)	SE4	740	3	R. Libertad, Chone: 24h
2)	RG1	°740	10	R. Melodía, Quito: 24h
26)	CT2	750	10	R. Centenario, Guayaquil: 1100-0300
27)	RQ1	°760	25	R. Quito, Quito: 1000-0515
28)	MP2	770	1	R. La Prensa, Guayaquil: 0930-0500
29)	RG4	780	0.3	R. Umiña, Manta: 1030-0400
30)	AA1	785	1	R. Noticia, Quito: 0500-0300
31)	AA4	°795	2	La Voz del Valle, Portoviejo: 1130-0400
32)	DE2	800	10	R. Bolívar, Guayaquil: 1200-0500
6)	FV1	805	2	Canal Tropical, Quito: 24h
33)	RF4	°820	1	Canal Manabita, Portoviejo
2)	GB1	825	2	R. Nal. Espejo, Sto. Domingo Cds.
34)	VT2	830	0.3	R. Atalaya, El Milagro: 2300-0300
35)	RP5	830	05	R. Promoción, Riobamba
36)	—	r830	5	R. Reporter, Guayaquil
37)	CE1	°835	1	R. Punto 83, Quito: 1100-2300
38)	EM4	°840	1	R. Costa Azul, Portoviejo: 1100-0500
39)	BA6	845	1	R. Ambato, Ambato: 1045-0300
40)	AJ2	850	1	R. Catolica, Guayaquil: 1330-1900, 2200-0230
2)	GB7	855	0.5	R. Nal. Espejo, El Puyo
41)	RG1	860	10	R. Visión, Quito: 1045-0400
42)	GS6	°865	0.4	R. Píllaro, Píllaro: 1130-1930, 2100-0330
43)	NY2	870	20	R. Cristal, Guayaquil: 0900-0500
44)	RP1	°880	1	R. Católica, Quito
45)	EL2	890	1	R. Unión, Quevedo
46)	TL5	890	0.5	Ondas del Chimborazo, Riobamba: 1100-0500
47)	RJ1	900	3	R. Gemas, Quito: 24h
48)	EV5	°900	5	R. Splendit, Cuenca: 1100-0430
49)	OF4	900	2	La Voz de Chone, Chone
50)	BO2	910	1	R. Espectáculo, Guayaquil
51)	GE5	°910	1	R. Mundial, Riobamba: 1200-0400
52)	RU3	°915	1	Ondas Orenses, Machala: 1300-0330
53)	CM1	920	10	R. Colón, Quito: 1100-0500
54)	VL2	925	1	La Voz Liberal, Guayaquil: 24h
55)	IM1	930	0.3	La Voz de Imbabura, Ibarra: 1200-1900, 2000-0600
56)	VE5	935	0.6	R. Colta, Colta: 0930-0100
57)	MT1	940	0.5	R. Kronos, Quito
58)	DE2	945	10	Radifesa, "Punto 945", Guayaquil: 1100-0630
59)	JX6	°955	1.5	La Voz del Agoyán, Baños: 1000-0330
60)	KC2	955	0.25	La Voz de los Ríos, Babahoyo: 2300-0300
61)	NC1	960	1	R. Cosmopolita, Quito
62)	OT1	°965	5	R. Zaracay, Sto. Domingo Cds: 1000-0500
63)	MB1	970	3	R. Continente, Ibarra: 1130-2000, 2200-0400
64)	SA5	970	1	R. Unión, Cuenca: 1200-0400
65)	AW2	975	10	Ondas del Pacífico, Guayaquil: 1000-0500
66)	JI5	980	2	R. El Prado, Riobamba: 1200-0400
67)	AU5	985	1	R. América, Cuenca: 1100-0600
68)	GH1	°990	3	R. Tárqui, Quito: 1045-0400
69)	EW2	995	5	R. Suceso, Guayaquil(nom. 1170)
70)	GO3	1010	3	R. Canal Estelar, Santa Rosa
71)	RC4	1010	3	R. Cenit, Manta: 1200-0500
72)	RM6	1010	5	R. Variedades, Ambato: 1100-0500
73)	RS6	1015	1	R. Surcos, Guaranda: 0945-0330
74)	RV5	1015v	1	R. Visión, Cuenca
75)	LV1	1020	0.6	R. El Sol, Quito: 1100-0500
76)	TO5	1025	0.25	La Voz del Pueblo, Colta: 1300-0400
77)	RR2	1027	1	R. Rocafuerte, Guayaquil: 1100-0500
78)	KL4	1030	1	R. Unión, Chone: 1100-0500
79)	CW1	1040	1	La Voz del Valle, Machachi: 1100-1900, 2200-0300
80)	GB6	1045	0.5	R. Colosal, Ambato
81)	ER5	°1045	1	Escuelas Radiofónicas Populares, Riobamba: 1000-0300
1)	AJ2	°1050	10	C.R.E. R.Dif. del Ecuador, Guayaquil: 1030-0400
82)	AC6	1060	0.75	Ecos del Pueblo, Saquisili: 1200-1930, 2200-0300
83)	RP3	1065	2	R. Palmira, Vilcabamba
84)	RS1	1070	1	R. Lubacán, Sto. Domingo: 24h
85)	VP1	1070	0.5	R. Libertad, Quito: 1100-0300
86)	FD2	1080	10	R. Noticia, Guayaquil: 1100-0500
87)	AA4	1085	1	R. Eco, Manta: 1000-0400
88)	MG1	1090	0.25	R. Fantasía, Quito: 1100-0100
89)	GR6	1095	0.4	R. Rey, Latacunga: 1200-0400
90)	FW2	1100	3	R. Alegría, Guayaquil
91)	RR5	1100	0.2	R. Reloj, Cuenca
92)	RP6	1105	1	R. Pelileo: 1130-1330, 2330-0330
93)	EG1	1110	0.5	R. Exito, Quito: 1100-0500
94)	LA2	1115	0.5	R. América, Guayaquil: 1100-0500
95)	EB1	1120	1	Ecos de Montúfar, San Gabriel
96)	RT5	1120	1.5	La Voz del Tomebamba, Cuenca: 1100-0500
97)	IR1	1125	1	R. Inty-Raimy, Pomasqui: 1100-0300
98)	PV6	1125	2	R. Centro, Ambato: 24h
99)	RD1	1130	2	R. Punto, Ibarra: 1100-0500
100)	AZ5	1140	1	R. Alfa Musical, Cuenca: 1100-0630
101)	FB2	1140	0.5	R. Cóndor, Guayaquil
102)	GB5	1150	0.5	La Voz de Riobamba: 1200-0400
71)	ND4	°1155	0.5	R. Cenit, Portoviejo: 1200-0500
103)	CP1	1160	1	R. Presidente, Quito
104)	VR3	°1160	5	R. Vía, Machala: 0930-0500
105)	VE6	1165	0.25	R. Runatacuyuac, Latacunga
69)	EW2	1170	5	R. Suceso, Guayaquil
106)	VJ5	1170	0.25	R. Central, Riobamba: 1100-2300, 0200-0400
107)	DP5	°1175	0.3	R. Cuenca, Cuenca
108)	LR1	1180	0.5	R. Central, Quito: 1100-0500
109)	RT1	1180	0.3	R. Tricolor, Mira: 1030-1800, 2200-0400
110)	SP4	1180	1	La Voz del Volante, Portoviejo
111)	BE2	1190	0.3	R. Excelsior, Guayaquil: 1100-0500
112)	CS1	1195	1	R. Turismo, Sangolqui: 1000-0300
113)	RF6	1195	0.25	R. El Sol, Pujili
114)	RM5	°1200	2	R. El Mercurio, Cuenca: 1100-0500
115)	RQ2	1205	2	La Voz del Trópico, Quevedo: 1100-0500
116)	GH1	1210	0.25	R. Continente, Quito: 1030-0500
117)	MD4	1210	0.5	R. Presidente, Sta. Ana
118)	BJ2	°1220	3	R. El Mundo, Guayaquil: 1300-1930, 2145-0405
119)	AP1	1225	0.3	R. Marañon, Quito: 1200-0300
120)	FG4	1230	0.25	R. Tropical, Esmeraldas
121)	RI1	1230	0.22	Centro Radifónico de Imbabura, Ibarra: 1130-0300

	Call	kHz	kW	Name, location and h. of tr.
122)	MB5	°1235	2	R. Popular Independiente, Cuenca: 1000-0700
123)	RL6	1235	0.4	R. Libertador, Saquisili
124)	AD5	1240	0.5	R. Riobamba Musical: 1200-0400
125)	AF1	1245	1	R. Metropolitane, Quito: 1200-0300
126)	HP4	1250	1	R. La Grande, Bahía
127)	CJ2	1250	1	Canal Juvenil, Guayaquil: 1100-0400
128)	EM1	1255	5	Ondas Carchenses, Tulcán: 1130-0300
129)	BO6	1260	0.5	R. Cine, Ambato
130)	WN1	°1260	1	La Voz del Triunfo, Sto. Domingo Cds: 1000-0600
131)	JE5	°1265	5	Ondas Azuayas, Cuenca: 1000-0540
132)	AI5	1270	0.17	R. Cumandá, Guamote
133)	CC6	1270	0.25	R. Casa de la Cultura, Latacunga
134)	UM2	1270	10	R. Universal, Guayaquil: 0900-0500
10)	AC1	°1280	2	La Voz de la Democracia, Quito: 1100-0400
135)	WW5	1280	1	R. Canal Tropical, Riobamba
136)	VN4	1285	1	La Voz del Sur de Manabí, Jipijapa: 1100-0400
137)	MV5	1290	2	La Voz del Rio Tarqui, Cuenca: 1000-0500
138)	MS1	1295	0.4	R. Pacifico, San Isidro: 1100-1900, 2200-0400
139)	NS1	1295	1	R. Popular, Atuntaqui
140)	RU1	1295	0.5	R. Festival, Sto. Domingo Cds.
141)	VM6	°1295	0.5	R. Once de Noviembre, Latacunga: 1200-0400
71)	DC2	1300	1.5	R. Cenit, Guayaquil: 1200-0400
2)	GB1	°1310	10	R. Nal. Espejo, Quito: 24h
142)	CP3	1315	0.25	La Voz del Oro, Pasaje: 1300-1900, 2300-0400
143)	JD6	1320	3	R. Continental, Ambato: 1000-0500
144)	FR2	1325	2	R. Guayaquil, Babahoyo: 1100-0500
145)	LW5	1330	0.45	La Voz de la Cordillera, Cuenca: 1200-0300
146)	RV3	1335	1.5	R. Nacional El Oro, Machala
2)	PX1	1335	1	R. Sport, Quito: 1100-0600
71)	DR4	°1340	1	R. Cenit, Bahía de Caráquez: 1000-0500
147)	MC7	°1340	1	La Voz de los Aucas, Fco. de Orellana
148)	RB5	1340	1	R. Trece de Noviembre, Cajabamba: 1100-1700, 2300-0400
149)	PS6	°1345	3.5	R. Paz y Bien, Ambato: 0930-0200
150)	PZ1	1350	2	R. Rumichaca, Tulcán: 1115-0415
151)	PV2	1350	0.3	R. Reloj, Guayaquil: 24h
152)	VL7	1350	1	Ecos del Oriente, Lago Agrio
153)	RJ5	1360	1	R. América, Riobamba: 1100-0400
154)	EH3	°1370	1	Sist. de Em. Progreso, Loja
155)	HB3	1370	1	R. Impacto, Piñas
156)	CP7	1370	0.25	La Voz del Cenepa, Zamora
157)	JS1	1370	2	Ecos Andinos, Pinampino
158)	OV7	1370	1	La Voz del Oriente, El Puyo
159)	JR6	1375	1	R. Mera, Ambato: 1300-0400
160)	WM2	1375	0.5	La Voz del Milagro
161)	BH6	1390	0.25	R. Latacunga, Latacunga
162)	CV1	1390	0.5	R. Ritmos, Quito
163)	EI1	1390	0.75	R. Uno, Urcuqui
164)	PB3	1390	0.25	R. Intiñan, Saraguro
165)	EA5	1390	5	R. Tropicana, Cuenca: 1100-0500
166)	VE4	°1395	3	La Voz de Esmeraldas: 1000-0500
167)	FL2	1400	0.2	R. Continental, Guayaquil: 1200-1900, 2200-0400
168)	DS4	1400	0.3	R. Tropical, Manta: 1100-0400
169)	RC7	1400	1	R. Curaray, Tena
10)	NJ1	1410	2	R. El Tiempo, Quito: 1100-0500
170)	RN5	1410	0.5	R. Cordillera, Guano
171)	VG8	°1410	5	La Voz de Galápagos, Isla S. Cristóbal
172)	CV6	1420	1	R. Nuevos Exitos, Salcedo: 1000-0500
173)	MB2	1425	0.5	R. Porteña, Guayaquil
174)	BX1	°1440	10	R. Casa de la Cultura, Quito: 1100-1730, 2300-0415
175)	OV5	1440	2	Ondas del Volante, Azogues: 1100-0400
176)	DF1	1440	0.6	La Voz del Norte, Ibarra: 1130-0400
177)	SC5	1445	0.5	R. Rubí, Riobamba: 1300-0500
178)	LV3	1450	0.5	R. Luz y Vida, Loja: 0945-0200
179)	HW2	1450	0.5	R. Rey, Quevedo
180)	IC6	1465	5	R. Nuevos Horizontes, Latacunga: 0900-0400
181)	DY4	°1465	3	R. Iris, Esmeraldas: 1100-0500
182)	EC1	1470	1	Ecos del Cayambe, Cayambe: 1030-0400
183)	HA2	1470	0.25	R. Novedades, Babahoyo
184)	BS3	1475	0.5	R. Melodía, Pasaje
185)	JV4	1480	1	La Voz de Jipijapa, Jipijapa: 1100-0400
186)	VQ7	1480	0.5	La Voz de Quijos, Baeza
187)	AI6	1490	0.5	La Voz de Los Llanganates, Pillaro
188)	AE4	1490	0.5	R. Unión, Esmeraldas
189)	MO1	°1490	1	R. Atahualpa, Quito: 1045-0435
190)	VZ2	1490	0.5	R. Atalaya, El Triunfo
191)	VT7	1490	0.2	La Voz de Tena, Tena
192)	HG2	1495	0.5	R. Central, Vinces: 1200-1700, 2300-0500
135)	WN5	1495	0.5	R. Puruhá, Riobamba
193)	RQ1	1500	1	R. Otavalo, Otavalo: 1200-0300
194)	AD4	1500	0.5	R. Satélite, El Carmen
195)	LD4	1500	0.35	R. Junín, Junín
196)	UE3	1500	0.7	R. Uno, Santa Rosa
197)	VC3	°1505	2	R. Centinela del Sur, Loja: 1145-0400
198)	RB2	1510	1	La Voz de Litoral, Guayaquil
199)	EB4	1520	0.5	R. Manta, Manta
200)	JJ2	1520	3	R. Punto Verde, Quevedo
201)	RI5	1520	0.25	La Voz de Guamote, Guamote
202)	RC1	1530	1	R. Colosal, Ibarra: 1130-0400
203)	VR1	1530	1	R. Cordillera, Quito: 1130-0400
204)	MP2	1530	1	La Voz de la Península, La Libertad: 1130-0430 (occ. 24h)
205)	MZ6	1530	0.5	La Voz del Dorado, Pelileo
206)	NI4	1530	0.36	La Voz de San Lorenzo, San Lorenzo
207)	CC5	°1530	5	Ondas Cañaris, Azogues: 1100-0400
208)	HG3	v1530	5	R. El Sol, Machala: 1200-0400
209)	MH6	1535	1	Org. Radiofónica del Cotopaxi, Latacunga: 1200-1500, 1600-2000, 2200-0430
210)	VB7	1540	1	La Voz del Upano, Sucúa
211)	AA3	1545	0.25	La Voz de Gonzanamá, Gonzanamá
212)	DP1	1545	0.5	R. Caracol, Quito
213)	AD5	1550	1	La Voz de Chaguarurco, Santa Isabel
214)	ET2	1550	0.25	R. El Triunfo, El Triunfo
215)	TR3	1555	2	La Voz del Guabo, El Guabo: 1100-1300, 1700-1900, 2300-0500
216)	CS2	1560	0.5	Centro Radiofónico Sideral, Daule: 1300-0500
217)	EI6	°1560	2	R. Cosmopolita, Ambato: 1100-0400
218)	ZD1	1560	0.5	Ecos Cult. de Urcuquí, Urcuquí
219)	VI5	1560	1	La Voz de Ingapirca, Cañar
220)	AB3	1570	0.25	Ondas de Paltas, Catacocha
221)	VJ3	1570	1	La Voz de la Juventud, Pasaje
222)	AE5	1580	2	Ecos del Portete, Girón
223)	VA4	1580	2	La Estación de la Alegría, Esmeraldas: 1100-0500
224)	RF1	1580	1	La Voz de la Nacionalidad, Quito
225)	RZ1	1590	1	R. Mensaje, Tabacundo: 1000-1400, 2200-0215
226)	PJ2	1590	0.3	Ondas de la Libertad, Libertad
227)	QT6	1595	0.3	R. Viracocha, Quero
228)	FM2	1600	0.3	R. Consular, Empalme: 1130-1500, 1800-2200, 0100-0330

Shortwaves: Call: HC--.

	Call	kHz	kW	Name and h. of tr.
130)	WN1	2340	1	La Voz del Triunfo, Sto. Domingo Cds.
229)	SK7	3210	10	R. Federación, Sucúa: 1100-0300
230)	JM1	3240	0.4	R. Turismo, Otavalo: 1200-1400, 1700-1900, 2300-0300
231)	OS4	3260	2	La Voz del Rio Carrizal, Calceta: 1100-0400
217)	EI6	3270	1.5	R. Cosmopolita, Ambato
232)	VN7	3280	1	La Voz del Napo, Tena: 1100-0400
233)	VA5	3290	1	La Voz de Alausí, Alausí
59)	JX6	3300	1	La Voz de Agoyán, Baños
234)	RP7	3315	2	R. Pastaza, El Puyo: 1100-0400
12)	HA2	3325	1.5	Ondas Quevedeñas, Quevedo: 2300-0300
235)	FB4	3340	2	Ondas del Mar, Esmeraldas: 1100-0500

	Call	kHz	kW	Name, location and h. of tr.
71)	AS4	3355	1	R. Cenit, Bahía de Caráquez: 1230-0500
229)	SK7	3360	5	R. Federación, Sucua: 1100-0300
2)	GC1	3375	1	R. Melodia, Quito
181)	DY4	3380	10	R. Iris, Esmeraldas: 1100-0500
62)	OT1	v3390	5	R. Zaracay, Sto. Domingo Cds: 1000-0500
236)	LM3	3500	1	R. La Voz de la Frontera, Macará: 2200-0500
237)	KD5	3515	0.2	R. Centro Gualaceo, Gualaceo: 0700-0300
81)	ER5	3985	1	Esc. Radiofónicas Populares, Riobamba: 1000-0300
2)	WE1	4680	5	R. Nal. Espejo, Quito: 24h
104)	VR3	r4720	1	R. Vía, Machala: 0230-0510
118)	BJ2	4750	3	R. El Mundo, Guayaquil: 1200-1930, 2145-0405
1)	AJ2	4765	5	C.R.E. R.Dif. del Ecuador, Guayaquil: 2300-0400
71)	ND4	4772	1	R. Cenit, Portoviejo: 1200-0500
189)	MQ1	4780	1	R. Atahualpa, Quito: 1045-0435
141)	VM6	4785	0.5	R. Once de Noviembre, Latacunga
18)	VP2	4790	5	Sistema de Emis. Atalaya, Guayaquil: 1000-1330, 0100-0455
238)	AS4	v4795	3	La Voz de los Carás, Bahía de Caráquez: 1300-0400
122)	MB5	4800	2	R. Popular Independiente, Cuenca: 1000-0700
171)	VG8	4810	5	La Voz de Galápagos, Isla S. Cristóbal: 1215-0400
33)	RF4	4815	1	R. Canal Manabita, Portoviejo: 1000-0500
149)	PS6	4820	1.5	R. Paz y Bien, Ambato: 0930-0200
178)	LV3	v4830	2	R. Luz y Vida, Loja: 1045-2000, 2145-0300
31)	AM4	4835	2	La Voz del Valle, Portoviejo: 1130-1300
239)	CV3	4857	5	Ondas del Zamora, Loja: 1130-1900, 2100-0300
51)	GR5	4860	1	R. Mundial, Riobamba: 1200-1400, 2100-0400
240)	GM7	4870	5	R. Rio Amazonas, Macuma: 1130-1245, 2100-0130
166)	EV4	4875	5	La Voz de Esmeraldas: 1000-0500
197)	ER5	v4890	3	R. Centinela del Sur, Loja: 1145-0400
52)	RU3	4895	0.25	Ondas Orenses, Machala: 1300-0330
241)	VS6	4900	0.4	La Voz de Saquisilí, Saquisilí: 1000-1800, 2000-0300
242)	VZ7	4905	3	La Voz del Zamora, Zamora
10)	MJ1	v4910	10	Emis. Gran Colombia, Quito: 2200-0600
243)	AN3	4916	0.5	R. El Trébol, Zaruma: 2300-0300
27)	RQ1	4920	5	R. Quito: 1000-0515
174)	CR1	4930	10	R. Casa de la Cultura, Quito: 1100-1530, 2300-0415
13)	XZ1	4940	10	R. Nacional del Ecuador, Quito: 1030-0415
38)	EM4	4950	1	R. Costa Azul, Portoviejo: 1100-0500
229)	SE7	4960	5	R. Federación, Sucúa: 1100-0300
68)	GH1	4970	3	R. Tarqui, Quito: 1045-0400
131)	JC5	r4980	0.25	Ondas Azuayas, Cuenca: 1000-0400 (nom.4995)
42)	GS6	4990	0.4	R. Pillaro, Pillaro
244)	LJ6	5020	0.5	La Voz de Bolívar, Guaranda
48)	EV5	5025	5	R. Splendit, Cuenca: 1100-0430
2)	GB7	5040	0.5	R. Nal. Espejo, El Puyo: 1100-0600
207)	CC5	5045	1	Ondas Cañaris, Azoguez: 1100-0400
44)	RP1	5055	1	R. Católica, Quito
16)	FF1	5070	5	R. Jesús del Gran Poder, Quito: irr.
154)	EH3	v5060	5	Sist. de Em. Progreso, Loja
107)	DP5	5950	0.3	R. Cuenca, Cuenca
20)	JB	6050	50/100	La Voz de los Andes, Quito
10)	AC1	6060	2	La Voz de la Democracia, Quito: 2200-0600
114)	RM5	6070	0.5	R. El Mercurio, Cuenca
20)	JB	6070	100	La Voz de los Andes, Quito
20)	JB	6075	100	La Voz de los Andes, Quito
20)	JB	6095	100	La Voz de los Andes, Quito
20)	JB	6130	100	La Voz de los Andes, Quito
14)	FD4	6140	5	R. Vision, Manta
147)	NC7	6180	1	La Voz de los Aucas, Fco. Orellana
20)	JB	6185	100	La Voz de los Andes, Quito
20)	JB	9540	100	La Voz de los Andes, Quito
20)	JB	9560	100	La Voz de los Andes, Quito

20) **HCJB La Voz de los Andes,** Quito

kHz	kW	kHz	kW	kHz	kW
9585	100	9760	100	11910	50/100
9605	100	9765	50/100	11915	100
9620	100	11745	100	11960	50/100
9635	50/100	11835	100	15115	50/100
9680	100	11840	100	15165	100
9715	100	11845	100	15310	100
9745	50/100	11895	50/100	15375	50/100

Abbreviations (Provincias): Azu=Azuay; Bol=Bolivar; Cañ=Cañar; Car=Carchi; Chi=Chimborazo; Cot=Cotopaxi; Esm=Esmeraldas; Gua=Guayas; Imb=Imbabura; Loj=Loja; R=Los Rios; Man=Manabí; MS=Morona Santiago; Nap=Napo; Oro=El Oro; Pas=Pastaza; Pich=Pichincha; Tun=Tungurahua; Zam=Zamora.

N.B: These abbreviations should not be used for postal purposes. It is advisable to write the full name.

1) Ap. 4144, Guayaquil, Gua – Dir: R. Guerrero V.
2) Cas. 352, Quito, Pich – Dir: G. Brborich U.
3) Cas. 4481, Guayaquil, Gua – Dir: J. Vilaseca.
4) Cas. A-57, Quito, Pich – Dir: M.L. Parra de Gleason.
5) Cas. 4539, Guayaquil, Gua – Dir: R.A. Calderón.
6) Cas. 3893, Quito, Pich.
8) Cas. 5169, Guayaquil, Gua – Dir: J. Feraud A.
10) Cas. 2246, Quito, Pich – Dir.Gen: E. Cevallos C – F.PL: MW 50kW.
11) Cas. 23, Zaruma, Oro – Dir.Gen: L.E. Berrezueta J.
12) 7 de Octubre 640, Quevedo, R – Dir.Gen: H. Alvarado P.
13) Cas. 82, Quito, Pich – Dir: J.M. Estrella P.
14) Cas. 4817, Manta, Man – Dir: F. Davalos.
15) Guayaquil, Gua – Dir: L. Guzmán.
16) Convento de S. Francisco, Quito.
17) Ventanas, R – Dir: F. Mesias M.
18) Cas. 204, Guayaquil, Gua – Dir: V. Paladines.
19) Ap. 39, Portoviejo, Man – Dir: J. Hidalgo.
20)

LA VOZ DE LOS ANDES (HCJB)

ADDR: Casilla 691, Quito. **Cable:** Vozandes (USA Office: Voice of the Andes, Box 3000, Miami, Florida 33055).
L.P: Pres: Dr. Abe Van Der Puy. Dir. of Broadc: Th. Fulghum. Dir. of Engineering: S. Rowlay. Field Dir: Rich. Broach. Head, International Sces: Rogr Stubbe. Broadc. Secretary: Susie Pile.
HOME SCE in Spanish: 1100-1230 on 428, 49, 31, 25m.b; 1230-2130 on 428, 49, 19, 16m.b; 2200-0230 on 428, 91, 31, 25m.b; 0230-0400 on 428, 49m.b.

INTERNATIONAL SERVICE

3×50kW, 3×100kW SW trs (G.C: 78.20W/00.14S).
No D-76 programme schedule received at time of editing, but frequency schedule reads:

To Europe	kHz (Beam)
0230-0530	9620(39)
0400-0530	6185(40)
0530-0830	6130(42)
	9760(38)
1030-1100	11840(39)
1500-2130	11845(42)
1500-1700	15165(42)
1500-1800	15310(39)
1800-1900	9540(39)
1900-2130	9510(39)

To Australia/NZ	
0500-0930	11915(227)
0700-1045	9745(225)
0830-1545	6130(225)

To No. America	
1230-1630	11745(347)
1330-0030	15115(345)
0030-0700	6095(335)
	9560(345)

To So. America	kHz (Beam)
0900-1100	6070(155)
	9680(140)
1100-1230	9715(324)
	11910(150)
1100-1500	9765(140)
1330-0030	15115(150)
2130-0230	11960(150)
2200-0030	11895(140)
	15375(140)

To Ce. America	
1100-1500	11910(330)
1330-0030	15115(345)

To S. America/Caribbean	
1630-2130	9635(40/155)
2200-0030	9635(40/155)

To Ea. Siberia/Japan	
0830-0900	6075(335)
1130-1230	6075(335)

Swedish is now reported at 0530-0600 on 6130/9760kHz, 0630-0645(Mon/Tues) on 6130/9760kHz, 1030-1100 on 11840kHz, 2100-2130 on 9510kHz. **Norwegian** 0630-0645(Wed/Fri) on 6130/9760kHz. **Finnish** 0630-0645(Sat/Sun) on 6130/9760kHz.

ANN: E: "This is the Voice of the Andes, HCJB, Quito, Ecuador in South America. The time at the tone will be . . ., Eastern Standard Time, the same as . . . Greenwich Mean Time. A programme follows in . . ." – **V.** Listener reports are welcomed. QSL-cards sent upon receipt of complete reception reports. Write for International Programme Schedule or request a specific Language Division Schedule. Other explanatory literature available by writing to HCJB, Casilla 691, Quito, Ecuador. Reception tapes are appreciated but cannot be returned to the sender.

The Voice of the Andes is operated by the World Radio Missionary Fellowship, Inc, with the purpose of the Heralding Christ Jesus' Blessings. HCJB is supported by freewill offerings, gifts and donations from individuals and foundations.

F.Pl: 2×500kW.

21) Cas. 4891, Guayaquil.
22) Cas. 89, Portoviejo, Man – Dir: G. Bonilla B.
23) Garcia Moreno 887, Quito, Pich – Mgr: L. Erazo.
24) Cas. 5169, Guayaquil, Gua – Dir: J.D. Feraud A.
25) Lascano y 7 de Agosto, Chone, Man – Dir.Gen: S. Espinel A.
26) 1 de Mayo 104, Guayaquil, Gua – Dir: C. Toledo P.
27) Ap. 57, Quito, Pich – Mgr: F. Fegan Polit.
28) Ap. 78, Guayaquil, Gua – Dir: M. Ulloa F.
29) Cas. 47, Manta, Man – Dir: R.E. Garcia R.
30) Cas. 2938, Quito, Pich – Mgr: A. Arcentales R.
31) Cas. 33, Portoviejo, Man – Dir: M. Garcia B.
32) Cas. 3672, Guayaquil, Gua – Dir: G. Gorelik.
33) Cas. 69, Portoviejo, Man – Dir: R. Hernández G.
34) Olmedo 515, El Milagro, Gua – Dir: V. Paladines.
35) Tarqui 2048 y Guayaquil, Riobamba, Chi.
37) Cas. 2587, Quito, Pich – Dir: C. Estrella V.
38) Pedro Gual, Portoviejo, Man – Dir: S.E. Morlás A.
39) Cas. 181, Ambato, Tun – Dir: Mario Barona A.
40) J. Pio Montúfar 1007, Guayaquil, Gua – Dir: A. Jarrin P.
41) Ap. 2147, Quito, Pich – Dir: J. Pazmiño.
42) Bolivar 537, Pillaro, Tun – Dir: G. Salazar.
43) Cas. 5662, Guayaquil, Gua – Dir: A. Romero.
44) Imbabura 1149, Quito, Pich – Dir: A. Angel R.
45) Calle 113 No. 107, Quevedo, R – Dir: A. Peña.
46) Larrea 2919, Riobamba, Chi – Dir: L.A. Tasambay.
47) Cas. 11-34, Quito, Pich – Mgr: A. Tayupanta Z.
48) Cas. 1352, Cuenca, Azu – Dir: R. Valencia Z.
49) Cas. 8, Chone, Man – Dir: A. Andrade.
50) Baquerizo Moreno 803, Guayaquil, Gua – Dir: D. Carrera D.
51) Cas. 1244, Riobamba, Chi – Dir: C. Encalada R.
52) Calle Sucre, Machala, Oro – Dir: R.B. Ulloa L.
53) Ap. 2912, Quito, Pich – Dir: J. Aguilar V.
54) 6 de Marzo 231, Guayaquil, Gua – Dir: J. Ferraud A.
55) Palacio Municipal, Ibarra, Imb.
56) Cas. 11, Riobamba, Chi – Mgr: C. McMindes.
57) Ap. 3596, Quito, Pich – Dir: C.M. Terán.
58) Cas. 3885, Guayaquil, Gua – Mgr: J. Magen W.
59) Convento de Padres Domínicos, Baños, Tun – Dir.Gen: P. César L.
60) Cas. 9, Babahoyo, R – Dir: A. Vivanco.
61) Morales 1224, Quito, Pich – Dir: N.P. Castro.
62) Edif. Zaracay, Sto. Domingo de los Colorados – Dir: H. Velástegui D.
63) Cas. 777, Ibarra, Imb – Dir: A. Báez R.
64) Río Bravo 1250, Cuenca, Azu – Gte: V. Serrano.
65) Cas. 11-66, Guayaquil, Gua – Gte: D. Huerta.
66) Cas. 20, Riobamba, Chi – Dir: M. Viscaíno M.
67) Cas. 820, Cuenca, Azu – Dir: A. Polo E.
68) Cas. 2558, Quito, Pich – Dir: G. Herdoíza L.
69) Chile 2211, Guayaquil, Gua.
70) Cas. 136, Santa Rosa, Oro – Mgr: G. Ordoñez A.
71) Empressa Radial Cenit, Ap. 4065, Guayaquil, Gua – Dir.Gen: W. Delgado C. (1010=P. Solano 701, Manta; 1340=Bolivar 902, Bahia; 1155=Olmedo 315, Portoviejo; 1300=Vélez 409, Guayaquil).
72) Cas. 541, Ambato, Tun – Mgr: E. Cisneros C.
73) Cas. 15, Guaranda, Bol – Dir: C. Rada S.
74) Cas. 198, Cuenca, Azu – Dir: T. Rodas.
75) Benalcázar 709, Quito, Pich – Dir: L. Moreno C.
76) 2 de Agosto s/n, Colta, Chi – Dir: T. Oleas G.
77) Cas. 6292, Guayaquil, Gua – Mgr: P.P. Gómez S.
78) Cas. 05, Chone, Man – Pres: A.E. Espinel A.
79) Garcia Moreno 486, Machachi, Pich – Mgr: S.B. Cueva S.
80) Cortez 106, Ambato, Tun – Gte: R. Salazar.
81) Ap. 4755, Riobamba, Chi – Dir.Gen: R. Veloz.
82) Plaza Principal, Saquisilí, Cot – Dir: S. Yánez.
83) Vilcabamba, Loja.
84) Sto. Domingo Cds, Pich – Gte: Marco Zavala V.
85) Salvador 209, Quito, Pich – Dir: C. Pesantes.
86) Cas. 5177, Guayaquil, Gua – Dir: O. Arroba C.
87) Colón y Eloy Alfaro 303, Manta, Man – Dir.Gen: J. Garcia Delgado.
88) Venezuela 541, Quito, Pich – Dir: G. Maldonado.
89) Latacunga, Cot – Dir: V.H. Muñoz.
90) Boyacá 1313, Guayaquil, Gua – Dir: F. Fálquez.
91) Aguirre 964, Cuenca.
92) Peliléo, Tun – Dir: S. Rodriguez.
93) Cas. 3409, Quito, Pich – Dir: J.M. Rodriguez.
94) Luque 910, Guayaquil, Gua – Dir.Gen: L. Albán B.
95) Colón 11, San Gabriel, Car – Dir: F. Poso G.
96) Cas. 493, Cuenca, Azu – Dir: J. Piedral.
97) Cas. 2384, Quito, Pich – Dir: L.E. Granizo V.
98) Cas. 574, Ambato, Tun – Dir: L.A. Gamboa T.
99) Cas. 777, Ibarra, Imb – Dir: A. Báez R.
100) Cas. 1583, Cuenca, Azu – Dir: O. Flores T.
101) Cas. 1054, Guayaquil, Gua.
102) Cas. 4747, Riobamba, Chi – Dir: G. Brborich U.
103) Montúfar y Esmeraldas, Quito, Pich – Dir: G. Fernández.
104) Cas. 695, Machala, Oro – Mgr: S.S. Garcia G.
105) Unión Evang. Misionera, Belisario Quevedo, Latacunga, Cot.
106) Morona 26 y Olmedo, Riobamba, Chi – Dir: S. León.
107) Cas. 1598, Cuenca, Azu – Dir: D. Pinos G.
108) Santa Prisca, Pje. Ibarra, Quito, Pich – Dir: E. Machado.
109) Calle Espejo s/n, Mira, Car – Dir: J.O. Caicedo C.
110) Morales 104 y Colón, Portoviejo, Man.
111) Cas. 3990, Guayaquil, Gua – Dir: L.F. Rodriguez C.
112) Bolívar 527, Sangolqui, Pich – Dir: A. Calderón G.
113) Pujili, Cot – Dir: F. Muños.
114) Cas. 60, Cuenca, Azu – Dir: M. Merchan.
115) Cas. 6, Quevedo, R – Dir: C. Izquerdo A.
116) Flores 846, Quito, Pich – Dir: H.E. Espinosa.
117) Angel R. Alamo 621, Santa Ana, Man.
118) Cas. 3311, Guayaquil, Gua – Dir: D. Vergara J.
119) Guayaquil 515, Quito, Pich – Dir: Ligia M. Wilches.
120) Cas. 135, Esmeraldas, Esm – Dir: F. Gutiérrez C.
121) Cas. 181, Ibarra, Imb – Dir: A. Morán.
122) Av. Loja 953, Cuenca, Azu – Dir.Gen: M.S. Villavicencio.
123) Saquisilí, Cot – Dir: V. Mera.
124) Cas. 4747, Riobamba, Imb – Dir: L. Aliaga.
125) Manabí 556, Quito, Pich – Dir: L. Moreno C.
126) Bahia, Man – Dir: R. Velástegui.
127) Gran Pasaje P.11, Guayaquil, Gua – Dir: J. Feraud A.
128) Ap. 30, Tulcán, Car – Dir.Gen: F. Almeida C.
129) Ambato, Tun – Dir: J. de Howitt A.
130) Cas. 43, Sto. Domingo de los Colorados, Pich – Dir: M. Yañez O.
131) Cas. 4980, Cuenca, Azu – Dir: J.A. Cardozo M.
132) Guamote, Chi – Dir: A.S. Montoya.
133) Cas. 267, Latacunga, Cot – Dir: L. Barriga L.
134) Cas. 5177, Guayaquil, Gua – Dir: O. Arroba E.
135) Cas. 14, Riobamba, Chi – Dir: W. Aldáz N.
136) Colón y Méjia, Jipijapa, Man.
137) Lamar y Montalvo, Cuenca, Azu – Dir: M. Pulla C.
138) Parque 10 de Agosto s/n, San Isidro, Car – Dir: C.A. Calderón G.
139) Atuntaqui, Imb – Dir: A. Calderón.
140) Santo Domingo Cds, Pich – Dir: H. Velastegui.
141) Cas. 286, Latacunga, Cot – Dir: V.H. Muñoz.
142) Ochoa León 505, Pasaje, Oro – Dir: C. Prado A.
143) Cas. 368, Ambato, Tun – Dir: J. Velastegui F.
144) Cas. 77, Babahoyo, R – Dir: F.E. Ronquillo F.
145) Cas. 877, Cuenca, Azu – Dir: M. Pulla.
146) Juan Montalvo 824, Pasaje, Oro – Dir: R. Vintimilla.
147) Fco. de Orellana, Napo – Dir: N. Zubeldia.
148) Av. Central, Cajabamba, Chi.

149) Cas. 94, Ambato, Tun – Dir: E. Pesántez G.
150) Cas. 42, Tulcán, Car – Dir: E. Cabezas M.
151) Rumichaca 934, Guayaquil, Gua – Dir: V. Paladines.
152) Lago Agrio, Napo – Dir: L. Delgado H.
153) Cas. 82, Riobamba, Imb – Mgr: E. Lomas C.
154) Cas. Letra V, Loja – Dir: E. Herrera G.
155) Piñas, Oro – Dir: O. Olmedo Torres.
156) Diego de Vaca, Zamora.
157) Calle Olmedo 181, Pimampiro, Imb – Dir: J. Valle.
158) El Puyo, Paz – Dir: A. Erazo A.
159) Cas. 91, Ambato, Tun – Dir.Gen: C. Marcillo V.
160) Milagro, Gua – Dir: C. Homero Vega.
161) Latacunga, Cot – Dir: B. Muñoz H.
162) Av. América 1034, Quito, Pich – Dir: E. Grijalva.
163) Urcuquí, Imb.
164) Saraguro, Loj – Dir: L. Guzmán H.
165) Cas. 830, Cuenca, Azu – Gte: Armando A. Sánchez.
166) Cas. 108, Esmeraldas, Esm – Dir: H.A. Endera E.
167) Colón 2005, Guayaquil, Gua – Dir: J. Farah R.
168) Cas. 36, Manta, Man – Dir.Gen: O. Ruperty.
169) Tena, Napo – Dir: H. von Lipke.
170) Guano, Chi – Dir: L. Tasambay.
171) Misión Franciscana, Puerto Baquerizo Moreno, Isla San Cristóbal, Galápagos – Mgr: V. Maldonado.
172) Cas. 294, Salcedo, Cot – Dir: W.M. Abril.
173) Cas. 5169, Guayaquil, Gua – Dir: J. Feraud A.
174) Ap. 67, Quito, Pich – Dir: N. Villagómez E.
175) Cas. 720, Azogues, Can – Dir: O. Serrano S.
176) Cas. 1244, Ibarra, Imb – Dir.Gen: C.A. Andrade.
177) Cas. 376, Riobamba, Chi – Owner: Herber G. Quimzo P.
178) Cas. 222, Loja, Loj – Mgr: Hna. Amada Campos D.
179) Cas. 84, Quevedo, R.
180) Cas. 252, Latacunga, Cot – Dir: I. Carrera N.
181) Cas. 8, Esmeraldas, Esm – Dir: D. Alvarez T.
182) Sucre 54, Cayambe, Pich – Dir: J.M. Córdoba S.
183) Babahoyo, R – Dir: H. Alvarado P.
184) Pasaje, Oro – Dir: B. Salazar B.
185) Calle Sucre y Colón, Jipijapa, Man – Dir: U. Delgado B.
186) Baeza, Nap – Dir: J. Sampedro.
187) Barrio el Censo, Pillaro, Tun – Dir: Aida E. Ibarra.
188) Olmedo 807, Esmeraldas.
189) Ap. 3213, Quito, Pich – Dir.Gen: G. Maldonado.
190) Juan Montalvo 1042, El Triunfo, Gua – Dir: E. Martínez.
192) Barrio Obrero, Vinces, R – Dir: S. Elizalde C.
193) Cas. 1474, Otavalo, Imb – Dir: M.A. Chicaiza T.
194) El Carmen, Man – Dir: E. Garcia.
195) Junín, Man – Dir: E. Villavicencio.
196) Sucre y Libertad, Santa Rosa, Oro – Dir: C.D. Ojeda D.
197) Cas. 196, Loja, Loj – Mgr: J. Coronel I.
198) Junín 206, Guayaquil, Gua.
199) Cas. 4869, Manta, Man – Dir: E. Bowen.
200) Quevedo, R – Dir: J. Jalón.
201) Soc. Unión Obrera, Guamote, Chi – Mgr: M.A. Arcocer Z.
202) Cas. 117, Ibarra, Imb – Dir: C. Salazar.
203) Ap. 1003, Quito, Pich – Dir: T. Recalde.
204) 4a Av. y Calle Guayaquil, La Libertad, Gua – Dir: M. Pinoargote P.
205) Pelileo, Tun – Dir: L. Jordán M.
206) San Lorenzo, Esm – Dir: C. Fernández Z.
207) Cas. 731, Azogues, Cañ – Dir.Gen: H. Vicuna D.
208) Cas. 724, Machala, Oro – Dir.Gen: S.B. Pinos G.
209) Edif. Ramos, Latacunga, Cot – Dir: C. Morán.
210) Sucúa, MS – Dir: A. Moreno.
211) Calle Bolivar, Gonzamaná, Loj – Dir: M.A. Mendieta O.
212) Olmedo 366, Quito, Pich – Dir: J. Buenaño.
213) Calle 8 de Noviembre, Santa Isabel, Azu – Dir: R. Palacios P.
214) El Triunfo, Gua – Dir: L. Pinos G.
215) El Guabo, Oro – Dir: T. Romón A.
216) Daule, Gua – Dir: F. Davila R.
217) Cas. 506, Ambato, Tun – Mgr: E. Ruiz M.
218) Antonio Ante, Urcuquí, Imb – Dir: F. Dueñas C.
219) Calle Colón, Cañar, Cañ – Dir: L.A. Maza.
220) Catacocha, Loj – Dir: A. Rios G.
221) Municipalidad 211, Pasaje, Oro – Dir: M. Córdova.
222) Girón, Azu – Dir: T. Pinos G.
223) Cas. 287, Esmeraldas, Esm – Dir.Gen: J.C. Plaza.
224) Inst. Geográfico Militar, Quito, Pich.
225) Calle Bolívar, Tabacundo – Dir: I. Barriga N.
226) Av. Principal Salinas, Libertad, Gua – Dir: J. Pazos.
227) Cas. 586, Quero, Tun – Dir: A. Llerena.
228) Manabí 205, Enpalme, Gua – Dir: E. Pazos.
229) Domingo Comin 17-38, Sucúa, MS – Dir: D. Antun.
230) Modesto Jaramillo y Av. Abdón Calderón, Otavalo, Imb – Dir: J.A. Viver.
231) Calle 10 de Agosto 308, Calceta, Man – Dir.Gen: P. Savarrete V. Mgr: O. Velásquez A.
232) Misión Josefina, Tena, Nap – Dir: P.L. Tirado S.
233) Alausí, Chi – Gte: Luís R. Rodríguez.
234) El Puyo, Pas.
235) Mejia y Bolívar, Esmeraldas.
236) Cra. Bolívar, Parque Central, Macará, Loj – Dir: A. Torres H – F.PI: 5kW.
237) Centro Gualaceo, Gualaceo, Azu.
238) Cas. 608, Bahia de Caráquez, Man – Dir: A.E. Neváres.
239) Cas. 174, Loja, Loj – Dir: L.E. Lasso.
240) Cas. 7, Shell, Pastaza, MS – Dir: M. Díaz G. Dir.Tec: J. Hedlund.
241) Saquisilí, Cot – Gte: A. Corrales.
242) Zamora, Zam – Dir: Mons. J. Mosquera.
243) Club Deportivo Trébol, 26 de Noviembre, Zaruma, Oro – Dir: G. Rodrigues C.
244) Cas. 56, Guaranda, Bol – Dir: J. Alarcón R.

FALKLAND ISLANDS

L.T: GMT–4h (Oct-March: GMT–3h) – **Pr.L:** English.

FALKLAND ISLAND BROADCASTING SERVICE (Gov.)

ADDR: Broadcasting Studios, Stanley. **Cable:** Broadcasts. **Te:** 90.
L.P: Officer-in-charge of Broadc. Dept: E. Fuhlendorff. Secr: Mrs. M.J. Kerr.

STATIONS: 536kHz 5kW – 2385kHz 0.5kW.
HOME SCE: October-March: W 1300-1500, 2230(Sat 2130-0130), Sun 2145-0030 – April-September: W 1400-1600, 2230(Sat 2030)-0200, Sun 2200-0100. **N:** 2245(BBC). **Relay BBC-WS:** Sun 2215. **Local N. and Shipping N:** Fri 2325.

ANN: "This is the Falkland Islands Broadc. Station" – **V.** by letter. Re. to Secr. M.J. Kerr. Rp.

Attention: International Shortwave Stations

As we plan to publish the frequency schedules for the periods J76 and S76 in our NEWSLETTER we ask you to be kind enough to send us your frequency schedules regularly. We thank you beforehand for your cooperation.

GUYANA (French)

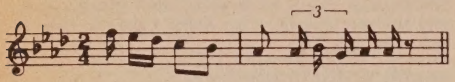
L.T: GMT–3h – **Pr.L:** French – **EC:** a/c 50, 127/220V (no.).

FRANCE REGIONS 3 (FR3)

ADDR: B.P. 336, Cayenne. **Te:** 311500.
L.P: Dir: J. C. Turjman. Dir. Tec: M. Gauthier.
STATIONS (G.C: 52.00W/05.00N): 4kW.*) St. Laurent du Maroni.

1070kHz	4kW	0900-0145(W)
*1090kHz	0.05kW	1000-0200(Sun)
3385kHz	4kW:	0900-1200, 2000-0145
4972kHz	1kW:	as mw.
6170kHz	4kW:	1200-2000

FM: Cayenne 94MHz, Kourou 96.3MHz.
N. 1030, 1630, 2230.
ANN: "Ici Cayenne, France Regions, Société Nationale de Programmes" – **INT-SIG:** Electric guitar.
V. by letter. Rec. acc – **ALF:** 160 Frcs.



GUYANA (Republic)

L.T: GMT–3h – **Pr.L:** English – **EC:** a/c 50, 110/220V (yes).

GUYANA BROADCASTING SERVICE (Gov.)

ADDR: P.O. Box 560, Georgetown. **Te:** 61382. **Cable:** "Guycast".
L.P: Dir.Gen: & Prgr.Dir: R. Sanders. Dir.Tec: L.R.E. Case.
STATIONS (10kW): 0723-0300.

560kHz	10kW: 0728-0300
3290kHz	10kW: 0728-1200, 2215-0300
5950kHz	10kW: 1200-2215
102MHz	0.05kW: 0728-0300

ANN: "This is Action Radio, GBS" – **V.** by letter.

GUYANA BROADCASTING CO. LTD (Comm.)

ADDR: P.O. Box 561, Georgetown. **Te:** 62691. **Cable:** Broadcast.
L.P: Gen.Mgr: & Dir.Prgr: R.A. Khan. Sales Mgr: A. Hamid, E.I.C. D.A. Daly.
STATIONS: R. Demerara (G.C: 58.05W/06.49N) (5 studios):

760kHz	10kW:	0817-0200
3265kHz	2kW:	0817-0200
5980kHz	2kW:	0817-0200

N: W 0900, 1000, 1300, 1430, 1500, 1725, 1925, 2155, 2300, 0000, 0158; Sun 1000, 1130, 1500, 1925, 2300, 0000, 0159. For further prgr. details refer to "The Chronicle".
ANN: "This is R. Demarara, Voice of Guyana" – **V.** by QSL-card. Rec. acc. – **ALF:** G$ 1.50.

PARAGUAY

L.T: GMT–4h (–3h 31/10-31/3) – **Pr.L:** Spanish, Guarani – **E.C:** a/c 50, 220V (yes).

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES

ADDR: Administración General, Cas. Correo 84, Asunción. **Cable:** Anetlco. **Te:** 4-4001 – **L.P:** Pres: Ing. M.C. Guanes. Dir.Adm: F.F. Duarte. Dir. of Technical Dept: Ing. J.C. Martínez R.

STATIONS: All st's comm. exc. R. Nacional.
Mediumwaves: °=Shortwave.

	Call	kHz	kW	Name and location, h. of tr.
1)	ZP15	v570	10	La Voz de Amambay, Pedro Juan Caballero: 24h
2)	ZP30	610	10	La Voz del Chaco Paraguayo, Filadelfia: 1000-0215
3)	ZP19	645	10	R. Caaguazú, Coronel Oviedo: 24h
4)	ZP26	660	1	Itá Pirú, Pto. Stroessner
5)	ZP12	700	10	R. Carlos Antonio López, Pilar: 0800-0200
6)	ZP7	730	3	R. Guaraní, Asunción: 0930-0300
7)	ZP5	°760	25	R. Encarnación: 0700-0400
8)	ZP70	780	25	R. Primero de Marzo, Asunción: 0800-0500
9)	ZP6	v°835	7	R. Guairá, Villarrica: 0900-0300
10)	ZP28	860	25	La Voz de la Cordillera, Caacupe
11)	ZP16	900	1	R. Presidente Stroessner, Puerto Presidente Stroessner: 1000-0200
12)	ZP1	°920	100	R. Nacional, Asunción: 1200-0300
13)	ZP9	970	1	R. Comuneros, Asunción: 24h
14)	ZP14	1020	5	R. Nanduti, Asunción: 0900-0300
15)	ZP13	1060	2.5	R. Boquerón, Alberdi
16)	ZP24	1120	1.5	R. Nuevo Mundo, San Lorenzo: 1000-0400
17)	ZP22	1140	1.6	R. Panambí Verá, Villarrica: 0900-0300
18)	ZP11	°1200	1.5	R. Charitas, Asunción: 1000-0330
19)	ZP21	1230	0.5	R. Centenario, Caaguazú: 1030-0100
20)	ZP3	°1250	25	R. Asunción: 0800-0400
21)	ZP10	v°1305	5	R. Paraguay, Asunción: 0930-0400
22)	ZP4	1330	10	R. Chaco Boreal, Asunción: 0900-0500
23)	ZP8	v1380	1	R. Concepción: 0930-0300
24)	ZP25	1400	1	R. Nanawa, Luque: 0900-0400
25)	ZP20	1480	1	R. América, San Juan Bautista de las Misiones: 1030-0300
26)	ZP23	1480	1	R. Mcal. Francisco S. López, Bella Vista: 1030-0100

Shortwaves: Call: ZP-.. *=inactive.

	Call	kHz	kW	Name and location, h. of tr.
12)	—	5237	10	R. Nacional, Asunción
9)	A6	5975	3	R. Guairá, Villarrica: 0900-1800
21)	A10	6015	3	R. Paraguay, Asunción: 0930-0400
12)	A1	6025	10	R. Nacional, Asunción: 1200-0300
18)	A11	6110	1	R. Charitas, Asunción: 1000-0330
12)	—	*9735	100	R. Nacional, Asunción
20)	A3	*11850	2	R. Asunción
12)	—	*11915	100	R. Nacional, Asunción.
7)	A5	*11945	5	R. Encarnación
6)	A7	*15210	3	R. Guarani, Asunción

Addresses and other information:
1) 14 de Mayo 475, Pedro Juan Caballero – Dir.Gen: L. Rolón P.
2) Filadelfia, Chaco.
3) Ruta Mcal. Estigarribia Km 6 1/2, Coronel Oviedo – Dir.Gen: H. Corres.
5) Alberdi 200, Pilar – Mgr: J. Acosta.
6) José Félix Bogado y Batallón, Asunción – Dir: E. Cáceres A.
7) Gral. Artigas 728, Encarnación – Mgr: J. Gómez.
8) José Félix Bogado y Felicidad, Asunción.
9) Alejo Garcia y Pte. Franco, Villarrica – Dir: E. Traversi V.
11) Pto. Pte. Stroessner – Dir: M. Bernabé A.
12) Oliva Esq. Alberdi, 6 piso, Asunción – Dir: A. Cáceres Almada.
13) Estados Unidos y Nanawa, Asunción – Dir.Gen: J. Bernabé A.
14) Antequera 654, Asunción – Dir.Gen: H. Rubin.
15) Alberdi – Dir.Gen: B. Leguizamón.
16) Coronez Romero y Florida, San Lorenzo – Dir: P. Pereira.
17) Natalicio Talavera y Curupayty, Villarrica – Dir: N.F. González.
18) L.A. de Herrera 364, C.C. 1313, Asunción – Dir.Gen: R.P.S. Urbistondo.
19) Caaguazú – Dir: R. Cabrera J.
20) Gral. Artigas y Bañado, Asunción – Dir: N. Férnandez
21) Av. Dr. Gaspar R. de Francia 365, Asunción – Dir.Gen: G. Halley M.

22) Cnel. Bogado 916, Asunción – Dir.Gen: G. Torcida.
23) Oliva y Schreiber, Concepción – Dir: S.E. Dacak.
24) Luque – Dir: J.C. Barnabé.
25) Pte. Franco – Esq. RCA Argentina, San Juan Bautista de las Misiones – Dir.Gen: J.C. Otazu A.
26) Bella Vista – Dir: B.R. de Cardozo.

PERU

L.T: GMT–5h – **Pr.L:** Spanish – **EC:** a/c 60,220V (yes).

MINISTERIO DE TRANSPORTES Y COMUNICACIONES,

Dirección General de Comunicaciones.
ADDR: Av. 28 de Julio 800, Lima 1. **Cable:** Digecom.
L.P: Dir. de Telecomunicaciones: Sra. Petronila R. de Babarczy.

EMPRESA NACIONAL DE RADIODIFUSION (ENRAD)

ADDR: Oficina Central de Informaciones (OCI), Jr. de la Unión 264, Lima.

STATIONS

Mediumwaves: °=shortwave; *=inactive but may open shortly; +=inactive; v=varying fq.

	Call	kHz	kW	Name and h. of tr.
1)	OBZ4L	560	1	La Voz de Oriente, Lima
2)	OAX3K	570	1	R. Progreso, Chimbote
3)	OAZ8C	°590	5	R. Sideral, Pucallpa
4)	OCX4L	590	1	R. Chinchaycocha, Junín
5)	OAX6S	600	0.25	r. Cultural Toquepala, Tacna
6)	OAX2M	620	1	R. Chepén, Chepén
7)	OCY4A	v°620	10	R. Estrella del Sur, Cañete: 1130-0430
8)	OXB7B	640	1	R. Onda Azul, Puno: 1200-0300
9)	OAZ4K	°640	10	R. del Pacífico, Lima: 1130-0430
10)	OAX5R	650	1	R. Regionalista, Ica
11)	OAX2N	650	1	Ondas del Norte, Trujillo: 1100-0600
4)	OCX4L	r665	1	R. Chinchaycocha, Junín (nom fq 590kHz)
12)	OBX4A	670	1	R. RBC, Callao
13)	OAX5E	°680	5	R. Independencia, Ica
14)	OBZ4H	700	1	R. Aeropuerto, Lima
15)	OAX6C	°740	10	R. Continental, Arequipa: 1100-0755
16)	OAX3T	750	1	R. El Mundo, Chimbote: 1100-0500
17)	OBZ4X	760	10	R. Mar, Lima: 1030-0700
18)	OAX8M	°770	5	La Voz de la Selva, Iquitos: 1100-0500
19)	OAX4X	°780	10	R. Victoria, Lima: 1000-0700
20)	OAX2I	790	5	CRU, Trujillo
21)	OAZ4U	800	0.5	R. San Juan, Huaral
22)	OBX5B	800	0.5	R. Sur Medio, Ica
23)	OAX3Y	800	2	R. La Selva, Tingo María
24)	OBX6A	800	0.35	R. Porteña, Ilo
25)	OAX4O	820	10	R. Libertad, Lima
26)	OAX3S	830	1	R. Casma, Casma
27)	OAX4A	°854	20	R. Nacional, Lima
28)	OBX1F	870	1	CRU, Chiclayo
29)	OBZ4N	°880	50	R. Unión, Lima
30)	OAX1D	890	10	R. Progreso, Piura
31)	OBX4X	°900	10	R. El Sol, Lima: 24h
32)	OBX1G	920	5	R. Heróica, Chiclayo: 24h
33)	OBZ4J	920	1	R. Bolognesi, "R. Popular", Huancayo
25)	OAX4E	930	10	R. Central, Lima
34)	OBX7L	940	1	R. Wilcamayo, Sicuani: 1100-0400
35)	OBX1C	940	1	R. Presidente, Paita
36)	OAX4D	°960	20	R. Panamericana, Lima
37)	OAX2F	980	0.4	R. La Hora, Trujillo
38)	OAX5T	+°980	1	R. La Voz de Huamanga, Ayacucho
39)	OBX4J	985	5	R. Programas del Perú, Lima: 1200-0500
40)	OBZ4R	°990	1	R. Dif. del Centro, Jauja
41)	—	990	10	R. Bicolor, Tacna: 24h
42)	OAX4U	°1010	50	R. América, Lima: 24h
43)	OAX7N	°1030	0.25	La Voz del Altiplano, Puno: 1100-0400
44)	OAX2W	r1030	1	R. Atahualpa, Cajamarca
37)	—	1040	—	R. Constelación, Trujillo
45)	OBX4O	1040	10	Onda Popular, Lima: 24h
46)	OBX6B	°1050	1	R. Arequipa: 1045-0430
47)	OAX3U	°1060	2	R. Horizonte, Tingo María
48)	OBX5D	°1060	1.8	R. Andahuaylas: 1100-0400
49)	OCY4Y	1060	1	R. Mil Sesenta, Lima
50)	OAX2B	1070	2.5	R. Trujillo, "La Voz del Norte del Perú", Trujillo: 1100-0500
51)	OAX5A	1070	0.25	R. Centinela, Puerto San Juan
27)	OAX4F	°1080	10	R. Nacional Mil Ochenta, Lima
52)	OBX1D	1080	5	R. San Miguel, Piura
53)	OAX7S	1080	1	R. Salcantay, Cuzco
54)	OAX8N	°1080	1	R. Samarén, Iquitos
56)	OAX9J	1100	0.5	R. San Martín, Juanjuy
57)	OAZ4W	1100	1	R. Musical, Barranca
58)	OCX4S	*1100	0.15	R. Imperial, Cañete
59)	OAX5Z	1100	1	R. Oasis, Ica: 1130-0500
60)	OCY4G	1100	1	Sonorama R, Huancayo: 1100-0600
61)	OBX1L	1100	1	R. Star, Chiclayo
62)	OBX7Z	1100	1	R. Comercial "RCC", Juliaca: 1000-0500
63)	OAX6D	°1120	10	R. Nacional, Tacna
64)	OAX8A	°1120	10	R. Nacional, Iquitos
65)	OAX1K	°1120	10	R. Nacional, Tumbes
66)	OAX4N	1130	2.6	R. Selecta, Lima: 1300-0430
67)	OAX7H	°1130	0.45	R. Puno, Puno
68)	OAZ4S	°1130	1	R. Chanchamayo, La Merced: 1400-0600
69)	OAX6L	1140	1	R. Concordia, Arequipa
55)	OAX3I	°1140	1	R. Tingo María (nom 1080)
70)	OCY4C	1140	1	R. Centro, "RPP", Huancayo
71)	OAX5W	1140	1	R. Chinchaysuyo, Chincha
72)	OAX3R	1140	1	R. Bahía, Chimbote
73)	OAX8D	1150	10	R. Loreto, Iquitos: 1100-0500
74)	OAX4C	1160	5	R. Once Sesenta, Lima: 1100-0600
75)	OAX3B	°1160	0.5	R. Huaraz, Huaraz
37)	OAX2C	°1160	1	R. Libertad, Trujillo: 1100-0400
76)	OCX4Y	°1170	1	R. Coop. Satipo, Satipo
77)	OCY4Z	°1180	1	R. Libertad de Junín, Junín
78)	OAX1E	1190	10	R. Chiclayo, Chiclayo: 1100-0600
79)	OAX7B	°1190	5	R. Tawantinsuyo, Cuzco
80)	OAX6N	1200	1	R. El Faro, Ilo
81)	OAX4B	1200	2.5	R. Lima, Lima
82)	OAX2Q	1210	1	R. Universo, Trujillo
83)	OAX7M	°1210	1	R. Quillabamba, Quillabamba: 1100-0200
84)	OBZ4N	1220	1	R. San Pedro de Grocio Prado, Chincha
85)	OAX6X	1220	0.42	R. Melodía, Arequipa
86)	OBX4K	1220	1	R. Fortaleza, Barranca
87)	OBZ4Y	1230	0.4	R. Selecciones, Tarma
88)	OBX7J	°1230	0.5	R. Madre de Dios, Puerto Maldonado: 1650-0315
89)	OBX7M	1240	1	R. Tupac Amaru, Sicuani
90)	OAX8P	°1250	1	R. Pucallpa, Pucallpa
91)	OAX4L	1250	5	R. Miraflores, Lima
92)	OAX5B	°1270		R. Ica, Ica
93)	OAX1H	1270	0.5	R. Grau, Piura
94)	OAX8T	°1270	1	R. Eco, Iquitos
95)	OBZ4T	1270	0.5	R. La Merced, La Merced
96)	OAX1I	1300	1	R. Comercial, Chiclayo
97)	OAX4M	1300	1	R. Atalaya, Lima
98)	OAX3O	1300	0.5	R. Huascarán, Huaraz
99)	OAZ8B	1300	1	R. Nuevo Mundo, Pucallpa
100)	OAZ4B	°1300	1	R. Andina, Huancayo
101)	OAX7P	°1300	0.35	Onda Imperial, Cuzco
102)	OAX7X	°1300	0.3	R. Juliaca: 1200-1400, 1700-1900, 2200-0400
103)	OAX6P	*1310	0.5	R. Latina, Tacna
104)	OAX4I	°1320	10	R. La Crónica, Lima: 1100-0600
105)	OAX1F	°1320	1	R. Talara, Talara

	Call	kHz	kW	Name and h. of tr.
106)	OAX9C	°1340	1	R. Tropical, Tarapoto: 1050-0500
107)	OAZ4Q	1340	0.5	R. Jauja, Jauja
108)	OAZ4M	1340	0.2	R. Huaral, Huaral
109)	OAX5H	°1340	1	R. Ayacucho, Ayacucho: 1045-0500
110)	OBX1K	1340	1	R. San Francisco, Piura
111)	OBX7X	1340	0.5	R. Urubamba, Urubamba
112)	OAX3N	°1350	1.5	Ondas de Huallaga, Huánuco
113)	OBX6F	°1350	1	R. Ilo, Ilo
114)	OAX2D	1350	0.5	R. Cajamarca, Cajamarca
115)	OAX7N	°1350	1	R. Sicuani, Sicuani
116)	OAX4Y	1360	1	R. Excelsior, Lima
117)	OAX3H	1370	1	R. Interamericana, Chimbote
118)	OAX6T	°1370	0.5	La Perla del Sur, Moquegua
119)	OBX4Y	°1370	1	R. Junín, Huancayo
120)	OAX1G	°1370	1	R. Tumbes, Tumbes
121)	OAZ4O	1370	1.5	Cosmos Nueva Imagen Radial, Huacho: 1100-0700
122)	OBX5C	1380	1	R. El Pueblo, Ica
123)	OCY4U	1380	0.2	R. ABC, Chosica
124)	OAX6O	1380	3	R. San Martín, Arequipa: 1030-0300
44)	OAX2W	1380	1	R. Atahualpa, Cajamarca
125)	OAZ4P	°1400	0.5	R. San Juan, Tarma
126)	OBX4W	1400	3	R. Callao, Callao
127)	OAX2O	*1400	1	R. Perú, Chepén
128)	OAX6J	°1400	0.45	R. Landa, Arequipa
129)	OAX7I	°1400	1	R. La Hora, Cuzco
130)	OAX2Y	1410	2	R. Heróica, Trujillo
131)	OBZ4V	1410	1	R. Universal, Huacho
132)	OCX7C	°1420	1	R. Qollasuyo, Juliaca
133)	OAX8Z	1420	1	R. Oriente, Yurimaguas
134)	OBX5H	1420	0.4	R. Apurimac, Abancay
135)	OAZ4V	1430	0.5	R. Universal, Huancayo
136)	OBZ4G	1430	1	R. San Isidro, Lima
137)	OCX4X	*1440	1	R. Cristal, Lima
138)	OAX6R	1440	1	R. El Tiempo, Arequipa: 1300-0200
139)	OBX1I	1440	2	R. Coop. Tumán, Chiclayo
140)	OAX6C	1460	1	R. Bahía, Mollendo
141)	OAX1V	°1460	1	R. Sullana, "La Voz de Chira", Sullana
142)	OAX3C	°1460	0.5	R. Huánuco, Huánuco
143)	OAX7W	°1460	1	R. El Sol de los Andes, Juliaca
144)	OAX5K	1460	2.5	R. Internacional, Pisco
145)	OCY4I	1460	0.5	R. Imperial, Junín
146)	OBX3A	1460	1	R. Chimú, Chimbote
147)	OCX4D	°1470	1	R. Huancayo, "La Voz del Centro", Huancayo
148)	OAX7G	°1470	1	R. Cuzco, Cuzco
149)	OBX4E	°1470	10	R. Inca del Perú, Lima: 24h
150)	OAX1L	1490	1	R. Imperio, Chiclayo
151)	OAX4P	°1490	0.5	R. Pasco, Cerro de Pasco
152)	OAX6Q	1490	5	R. Surperuana, Arequipa: 1100-0400
153)	OAX8J	°1490	1	R. Atlántida, Iquitos
154)	OAX5L	°1490	0.25	R. Concejo Provincial, Abancay
155)	OAX5N	1490	0.3	R. Nazca, Nazca
156)	OBX4I	°1500	10	R. Santa Rosa, Lima: 1100-0345
157)	OAX6I	*1500	1	R. Moquegua, Moquegua
158)	OCX4J	1510	1	R. Tarma, Tarma: 1200-0300
159)	OBX7P	1510	1	R. El Sur del Perú, Cuzco
160)	OCX4V	1510	0.3	R. Fesa, Cañete: 1000-0530
161)	OBX4D	1520	1	R. Reloj, Lima
162)	OAZ4D	°1520	0.5	R. Minería, La Oroya
163)	OAX1C	1520	1	R. Délcar, Chiclayo
164)	OBZ4S	°1530	1	R. Quince Cincuenta, "La Nueva Voz del Centro", Huancayo: 1100-0700
165)	OBX4N	**1540	0.5	R. Corporación, Cerro de Pasco
166)	OBX6D	1540	0.5	R. Mundial, Arequipa
167)	OAZ4N	*1540	0.15	R. San Pedro, Mala
168)	OBZ4U	1540	0.5	R. Barranca, Barranca: 1100-0500
169)	OBX1B	1540	1	La Voz de la Frontera, Tumbes
170)	OBX4P	1550	0.5	R. Independencia, Lima
171)	OBX5J	°1550	0.5	R. San Cristóbal de Huamanga, Ayacucho
172)	OCX4F	1560	1	R. Mundo, Huancayo
173)	OAX2X	1560	1	R. Primavera, Trujillo
174)	OAX5M	°1580	0.1	R. Huancavelica, Huancavelica
175)	OBX7Q	°1580	1	R. Triunfo, Cuzco: 1100-0300
176)	OAZ4Z	1590	5	R. Agricultura, Lima: 1000-0500

Shortwaves:

	Call	kHz	kW	Name and h. of tr.
143)	OBX7D	3250	0.4	R. El Sol de los Andes, Juliaca
42)	OBX4U	3240	1	R. América, Lima
132)	OCX7D	3250	1	R. Qollasuyo, Juliaca
119)	OBX4Y	3300	0.5	R. Junín, Huancayo
7)	OBZ4I	3320	1	R. Estrella del Sur, Cañete: 1130-0430
112)	OAX3Q	3330	0.5	Ondas de Huallaga, Huánuco
13)	OAX5J	3350	1	R. Independencia, Ica
142)	OAX3C	3360	0.25	R. Huánuco, Huánuco
40)	OBZ4N	v3385	0.5	R. Dif. del Centro, Jauja
177)	OBX7K	r3552	1	R. Dif. la Convención, Quillabamba (nom.3335)
55)	OAX3P	4760	1	R. Tingo María, Tingo María
149)	OCX4W	4762	1	R. Inca del Perú, Lima
109)	—	r4772		R. Ayacucho, Ayacucho
47)	OAX3V	4785	1	R. Horizonte, Tingo María
76)	OCX4Z	4785	1	R. Coop. Satipo, Satipo
153)	OAX8F	4790	1	R. Atlántida, Iquitos
164)	OCY4S	4800	1	R. Quince Cincuenta, Huancayo
54)	OAX8X	4815	1	R. Samarén, Iquitos: 1000-0500
67)	OAX7K	4820	0.45	R. Puno, Puno
18)	OAX8R	4825	1	La Voz de la Selva, Iquitos
118)	OAX6Z	4825	0.5	La Perla del Sur, Moquegua
115)	OAX7T	4835	0.35	R. Sicuani, Sicuani
48)	OBX5E	4840	1.8	R. Andahuaylas: 1100-0400
141)	OAX1X	4845	1	R. Sullana, "La Voz de Chira", Sullana
178)	OCY4X	v4855	1	R. Oriente Selva Central, Satipo
4)	OBZ4Z	4860	1	R. Chinchaycocha, Junín: 1100-0300
179)	OCX4T	*4870	0.5	R. La Merced, Huancayo
174)	OAX5X	4885	1	R. Huancavelica, Huancavelica: 1100-0500
125)	OAZ4R	r4890	0.5	R. San Juan, Tarma (nom.4940)
68)	OAZ4T	4895	0.4	R. Chanchamayo, La Merced
180)	OAZ8A	4905	0.5	R. Yarinacocha, Pucallpa
37)	OAX2H	4910	1	R. Libertad, Trujillo: 1100-1900
79)	OAX7V	4910	1	R. Tawantinsuyo, Cuzco
154)	OAX5Q	4934	0.25	R. Concejo Provincial de Abancay
106)	OAX9E	4935	1	R. Tropical, Tarapoto: 1050-0500
125)	OAZ4R	4940	0.5	R. San Juan, Tarma
181)	OAX8Y	4950	0.5	R. Ucayali, Contamana
88)	OAX7I	4951	0.5	R. Madre de Dios, Puerto Maldonado: 1650-0315
182)	OAX5S	4955	1	R. Cultural Amauta, Huanta: 1100-0200
9)	OCX4H	4975	4	R. del Pacífico, Lima
175)	OBX7R	4990	1	R. Triunfo, Cuzco: 1100-0300
100)	OAZ4C	4996	1	R. Andina, Huancayo
183)	OAX2S	5005	0.25	R. Jaén, Jaén
94)	OAX8V	5010	1	R. Eco, Iquitos: 1100-0500
171)	OAX5Y	5020	1	R. San Cristóbal de Huamanga, Ayacucho
83)	OAX7Q	5025	5	R. Quillabamba, Quillabamba: 1100-0200
184)	OBX7F	5035	1	R. Ayaviri, "La Voz de Melgar", Ayaviri: 1200-0100
113)	OAX6U	5035	1	R. Ilo, Ilo
77)	OCY4Y	5040	1	R. Libertad de Junín, Junín
120)	OAX1J	+5050	1	R. Tumbes, Tumbes
101)	OAX7O	5055	1	R. Onda Imperial, Cuzco
102)	OAX7Z	r5082	0.35	R. Juliaca, Juliaca (nom.5015kHz)
185)	OAX5Q	r5082	—	R. Abancay, Abancay (nom.5080)
43)	OAX7L	r5816	1	La Voz del Altiplano, Puno (nom.5960kHz)

	Call	kHz	kW	Name and h. of tr.
67)	OAX7K	r5925	0.45	R. Puno, Puno (nom.4820)
46)	OAX6A	5950	1	R. Arequipa, Arequipa: 1045-0430
147)	OAX4P	5955	0.5	R. Huancayo, "La Voz del Centro de Perú", Huancayo
31)	OBX4Q	5970	1	R. El Sol, Lima
36)	OBX4M	5980	5	R. Panamericana, Lima
65)	OAX1W	5990	1	R. Nacional, Tumbes
42)	OAX4V	6010	10	R. América, Lima
19)	OAX4Q	6020	5	R. Victoria, Lima: 1000-0700
64)	OAX8B	6028	1	R. Nacional, Iquitos
128)	OAX6B	6035	0.2	R. Landa, Arequipa
156)	OCY4H	6045	10	R. Santa Rosa, Lima: 1100-0345
15)	OAX6E	6055	2	R. Continental, Arequipa: 1100-0700
38)	OAX5U	6070	2	La Voz de Huamanga, Ayacucho
27)	OAX4Z	6082	15	R. Nacional, Lima
27)	OAX4H	6095	10	R. Nacional, Mil Ochenta, Lima
63)	OAX6F	6105	1	R. Nacional, Tacna
29)	OBZ4O	6115	10	R. Unión, Lima
104)	OCX4A	6123	1	R. La Crónica, Lima
151)	OCX4M	6135	0.5	R. Pasco, Cerro de Pasco
162)	OAZ4E	6145	1	R. Minería, La Oroya
90)	OAX8Q	6155	1	R. Pucallpa, Pucallpa
165)	OBX4B	*6170	0.35	R. Corporación, Cerro de Pasco
79)	OAX7C	6175	5	R. Tawantinsuyo, Cuzco
148)	OAX7A	6195	1	R. Cuzco, Cuzco
186)	OAX6H	9505	0.2	R. Tacna, Tacna: 1100-0600
42)	OAX4V	9505	5	R. América, Lima
104)	OAX4J	9515	5	R. La Crónica, Lima: 1100-0600
63)	OAX6G	9532	2	R. Nacional, Tacna
65)	OAX1Z	9550	2	R. Nacional, Tumbes
27)	OAX4R	9562	50	R. Nacional, Lima
92)	OAX5C	9590	0.2	R. Ica, Ica
75)	OAX3E	9600	0.5	R. Huaraz, Huaraz
105)	OAX1R	9600	0.5	R. Talara, Talara
64)	OAX8C	9610	2	R. Nacional, Iquitos
3)	OAX8W	r9610	3	R. Sideral, Pucallpa (nom.9755kHz)
143)	OBX7E	9618	0.8	R. El Sol de los Andes, Juliaca
153)	OAX8K	9625	1	R. Atlántida, Iquitos
94)	OAX8U	9665	1	R. Eco, Iquitos
9)	OAZ4L	9675	5	R. del Pacífico, Lima: 1100-0430
15)	OAX6K	9685	3	R. Continental, Arequipa
106)	OAX9D	9710	1	R. Tropical, Tarapoto: 1050-0500
19)	OAX4C	9720	1	R. Victoria, Lima
129)	OAX7J	9730	1	R. La Hora, Cuzco
3)	OAX8W	9755	3	R. Sideral, Pucallpa
54)	OAX8O	9770	1	R. Samarén, "La Voz de la Revolución Peruana", Iquitos
27)	OBX4R	11914	40	R. Nacional, Lima
27)	OAX4T	+15150	50	R. Nacional, Lima
27)	OCX4O	+17890	10	R. Nacional, Lima
27)	OBX4T	+21600	50	R. Nacional, Lima

State abbreviations (Departamentos): Ama=Amazonas; Anc=Ancash; Apu=Apurímac; Are=Arequipa; Aya=Ayacucho; Caj=Cajamarca; Cuz=Cuxco; Hua=Huánuco; Jun=Junín; Lamb=Lambayeque; Lib=La Libertad; Lor=Loreto; MD=Madre de Dios; Moq=Moquegua; Pas=Pasco; Piu=Piura; SM=San Martín; Tac=Tacna; Tum=Tumbes.

N.B: These abbreviations cannot be used for postal purposes. Name should be written out in full where necessary.

Addresses and other information:

1) Av. Bolivia 213, Lima – DG: Demetrio A. Chang S.
2) Cas. 117, Chimbote (Anc) – DG: Darío C. Montero.
3) Cnel. Portillo 452, Pucallpa (Lor) – Gte: Florial Rodríguez B.
4) Grau 642, Junín – DG: Oswaldo Baldeón M.
5) Cas. 303, Tacna – Gte: Lester E. Kitch.
6) Calle Lima 599, Chepén (Lib) – Gte: José A. Tejada T.
7) Cas. 55, Cañete (Lima) – Gte: A. Alvarez-Calderón R.
8) Cas. 210, Puno.
9) Ap. 4236, Lima – Dir.Gral: A. Escobar. Gte: Pedro Ferreyra G.
10) Jr. Salaverry 355, Ica – Gte: Juana Fajardo de Nieri.
11) Ap. 186, Trujillo – DG: Victor Meléndez S.
12) Av. Elmer Faucett 169, of. 3-312, Maranga, S. Miguel, Lima – Gte: Luis Botto U.
13) Av. Conde de Nieva 125, Ica.
14) Av. de la Marina 3099, Maranga, S. Miguel, Lima – Gte: Jorge L. Prada L.
15) Cas. 856, Arequipa – DG: V. Antonio Umbert D.
16) Ap. 294, Chimbote (Anc) – Gte: Fausto León R.
17) Parque Fátima 403, Chorrillos, Lima – DG: Juan Valderrama.
18) Ap. 207, Iquitos – Gte: Miguel A. Villa V.
19) Cas. 3639, Lima – Gte.Gral: Juan Ramírez L– **F.PL:** 50kW.
20) Km. 548 Carret. Panamericana Nte, Urb. Larrea, Trujillo – DG: Genaro Delgado B.
21) Calle Derecha 483, Huaral (Lima) – Gte: Santiago Kong M.
22) Av. Arenales 1050, Ica – DG: Oscar F. Drago V.
23) Av. Raymondi 449, Tingo María (Hua) – DG: Dr. Julio Amaya A.
24) Zepita 743, Ilo – Gte: Guillermo Fernández C.
25) Av. Salaverry 1082, Jesús María, Lima – DG: Julio Goicochea.
26) Barrionuevo 623, Casma (Anc) – Gte: Félix R. Achú P.
27) Av. Petit Thouars 441, Lima – Dir: Juan Ureta M.
28) Urb. Patazoa, Manz. 41, Chiclayo – DG: Genaro Delgado B.
29) Ap. 6205, Lima – Gte: Fernando González del C.
30) Cas. 254, Piura.
31) Av. Uruguay 355, 7° piso, Lima – Gte: Gastón Guido Talavera.
32) Juan Cuglievan 673, Chiclayo – Gte: Alvaro Mesía V.
33) Cas. 560, Huancayo – DG: Eduardo Sanjinés A.
34) Ap. 129, Sicuani (Cuz) – DG: Rosario Aguilar C.
35) Cas. 55, Paita (Piu) – DG: César Minaya V.
36) Av. Arequipa 1110, Lima – Gte.Gral: Carlos Degregori D.
37) Cas. 712, Trujillo – Pte: Carlos Burmeister B.
38) Jr. Libertad 601, Ayacucho – DG: Fernando Cruz M.
39) Av. Petit Thouars 2417, Lima – Dir: Delia Ll. A. de Caballero.
40) Junín 1131, Jauja (Jun) – DG: Jonas Barreto P.
41) Cas. 281, Tacna.
42) Cas. 1192, Lima – DG: Roberto Cruzado O.
43) Ap. 130, Puno.
44) Jr. Lima 548, Cajamarca.
45) Av. Nicolás de Piérola 624, Lima – Sub-Gte: Néstor Doborti T.
46) Cas. 657, Arequipa – Gte: Pedro Rufino Zúñiga G.
47) Raymondi 629, Tingo María (Hua).
48) Cas. 33, Andahuaylas (Apu) – Dir: M. Gutíerrez Q.
49) Av. Nicolás de Piérola 624, Lima – DG: Pedro Tello C.
50) Cas. 676, Trujillo – DG: José Manuel Castro C.
51) Av. Los Incas 130, Puerto San Juan (Ica) – DG: Enrique Seibt K.
52) Calle Tacna 975, Piura – DG: Gerardo Garrido P.
53) Cuesta del Almirante 209, Cuzco.
54) Cas. 494, Iquitos.
55) Ap. 25, Tingo María (Hua) – Gte: Leónidas Infantas G.
56) Jr. Triunfo s/n, Juanjuy (SM) – Gte: Leónidas Infantas
57) Carret. Panamericana Nte. Km 187,5, Barranca (Lima) – Gte: Arturo Meoño F.
58) Calle 2 de Mayo 573, Cañete (Lima) – DG: Roberto Pachas C.
59) Independencia 159, Ica – DG: Lucio H. Fox M.
60) Real 270, El Tambo, Huancayo – DG: Guido H. Barreto R.
61) Cas. 351, Chiclayo – DG: Carlos Romero C.
62) Cas. 163, Juliaca – DG: Julio S. Mita I.
63) Cas. 113, Tacna.
65) Tumbes – Admor: Carlos Fernández P.
66) Av. Nicolás de Piérola 1014, Lima – Gte: Luis Freund.
67) Calle Deza 335, Puno.
68) Ap. 96, La Merced (Jun).
69) Colón 112, Arequipa – Gte: Víctor R. Fernández B.
70) Av. Cnel. Parra s/n, Pilcomayo, Huancayo – Gte: Luis Petrick Ch.
71) Ap. 54, Chincha (Ica) – DG: Augusto Córdova B.
72) Alfonso Ugarte 309, Chimbote (Anc) – Pte: Margarita Rossel S.
73) Arica 228, Iquitos – Gte: Roberto Cruzado O.

74) Ap. 2355, Lima – Gte: Augusto Lanatta B.
75) Av. Tarapacá 1015, Huaraz (Anc).
76) Km. 4.2 Carret. a Mazamari, Satipo (Jun).
77) Ap. 2, Junín (Jun) – DG: Mauro Chaccha G.
78) Cas. 210, Chiclayo – Pte: S. Diez C.
79) Cas. 39, Cuzco – DG: Raúl Montesinos E.
80) Zepita 913, Ilo – Pte: José Valencia S.
81) Esq. Petit Thouars y Saco Oliveros 3111, Lima – Gte: Oscar Dianderas S.
82) Mariscal Orbegoso 266, Trujillo – Pte: Luis F. Cook L.
83) Ap. 76, Quillabamba (Cuz) – DG: P.J. Barriales A.
84) Av. Progreso 400, Grocio Prado, Chincha (Ica) – DG: Gregorio Tasayco M.
85) San Camilo 501 altos, Arequipa – Gte: Hermógenes Delgado T.
86) Alfonso Ugarte 149, Barranca (Lima) – Gte: Santiago Jan G.
87) Moquegua 648, Tarma (Jun) – Admor: César Anaya Ch.
88) Ap. 37, Pto. Maldonado (MD) – Admor: Fray Fco. Javier Aniz O.P.
89) Av. Manuel Callo Zevallos 111, Sicuani (Cuz) – Gte: Manuel Infantas C.
90) Cas. 246, Pucallpa (Lor) – DG: Julio R. Zevallos M.
91) Alcanfores 592, Miraflores, Lima – DG: Ricardo Palma S.
92) Jr. San Martín 251, Ica.
93) Jr. Cuzco 850, Piura.
94) Cas. 174, Iquitos – DG: Marcos Panduro R.
95) Jr. Junín 171, La Merced (Jun) – DG: Teodorico Fidehl F.
96) Av. Balta 415, Chiclayo.
97) Jr. Huaraz 2098, Breña, Lima – Gte: Guillermo Dyer A.
98) Los Quenuales 155, Huaraz (Anc) – DG: Máximo Barrenechea S.
99) Av. 9 de Diciembre 642, Pucallpa (Lor) – Gte: Rubén G. Bahuer C.
100) Calle Real 175, Chilca, Huancayo – Admor: Teodoro Muñoz I.
101) Cas. 40, Cuzco – DG: Alberto Barrionuevo S.
102) 9 de Diciembre 241, Juliaca.
103) Ap. 115, Tacna – Gte: Rosa L.R. de Liendo.
104) Paseo de la República 291, piso 19, Lima – Gte: Juan Silva V.
105) Altos Cine Talara, Talara.
106) Cas. 31, Tarapoto (SM) – DG: Juan P. Mori.
107) Jr. Bolognesi 534, Jauja (Jun).
108) Carhuas 447, Huaral (Lima) – DG: Luis de la Lama B.
109) Cas. 200, Ayacucho – Gte: W. Wong G.
110) Calle Tacna 235, Edif. El Sol, Piura – DG: Pedro L. Oriundo S.
111) Mainique 546, Urubamba (Cuz) – DG: Antonieta Navarro Vda. de Gibaja.
112) Ap. 343, Huánuco – Gte: Flavio Llanos M.
113) Los Geranios 105, Agrup. Huascar, Ilo – DG: Lucila Sardón U.
114) Jr. Lima 1004, Cajamarca.
115) Cas. 45, Sicuani (Cuz) – Gte: E. Mejía T.
116) Manco Cápac 333, La Victoria, Lima – DG: Augusto Delmont B.
117) Manuel Ruiz 276, 3er piso, Chimbote (Anc) – Gte: Nicolás Bustamante A.
118) Ayacucho 639, Moquegua – Gte: Luis G. Puente A.
119) Jr. Callao 120, Huancayo.
120) Bolívar 111, Tumbes.
121) Av. Grau 538, Huacho (Lima) – Gte: M. Arakaki O.
122) Callao 295, Ica – DG: Pedro P. Flores M.
123) Jr. Venezuela 190, Urb. San Fernando, Chosica (Lima) – DG: Luis A. Borda García.
124) Cas. 56, Arequipa – Gte: Rvdo. Padre Fco. Villena C.
125) Jr. Huánuco 488 altos, Tarma (Jun).
126) Av. Buenos Aires 613, Callao – Gte: Leónidas Yerovi.
127) Calle Lima 342, Chepén (Lib) – DG: Italo Verástegui B.
128) San Juan de Dios 237, Arequipa – DG: Máximo Lando V.
129) Cas. 24, Cuzco – Admor: E. Montesinos G.
130) Jr. Almagro 715, Trujillo – Gte: Carlos Casanova B.
131) Calle Bolognesi 163, Huacho (Lima) – DG: César H. Minaya V.
132) Jr. 7 de Junio 580, Juliaca – Gte: Raúl Montesinos E.
133) Comercio 107, Yurimaguas (Lor) – DG: Alberto E. Ch. Ruiz.
134) Jr. Cuzco 206, Abancay (Apu) – DG: Raúl Montesinos E.
135) Av. Mariátegui 699, Huancayo – DG: Jesús Pomalaza B.
136) Saco Oliveros 311, 3er piso, Lima – DG: Ricardo Guimet V.
137) Jr. Cuzco 177, 3er piso, Lima – Pte: Santiago Poppe Y.
138) Santa Marta 310, Arequipa – Gte: Tirzo Borja V.
139) Cooperativa Agraria de Prod. Tumán Ltda. No. 14, Chiclayo.
140) Cas. 128, Mollendo – Gte: J.A. Bernedo Ll.
141) Sucre 556, Sullana – DG: Jorge Geller G.
142) Municipalidad de Huánuco, Huánuco.
143) Cas. 11, Juliaca – DG: Pedro Cáceros V.
144) San Francisco 191, Pisco (Ica) – DG: D. Villa de la Cruz.
145) Bolívar 481, Junín (Jun) – DG: Aníbal Torres A.
146) Ap. 310, Chimbote (Anc) – DG: Gerardo Garrido P.
147) Cas. 187, Huancayo – DG: Alberto Villacorta V.
148) Cas. 251, Cuzco – DG: Doris Rosenthaal P.
149) Av. Nicolás de Piérola 533, Lima – DG: A.S. Irei S.
150) Calle República 139, Distrito San Carlos, Chiclayo – DG: Mesia, Sánchez F.
151) Ap. 128, Cerro de Pasco – DG: Humberto Maldonado B.
152) Ap. 1015, Arequipa – DG: Gustavo Quintanilla P.
153) Ap. 277, Iquitos – DG: Julio Reátegui B.
154) Jr. Lima 206, Abancay (Apu).
155) Calle Arica 133, Nazca (Ica) – Gte: Eugenio Cajo E.
156) Ap. 4451, Lima – Gte: Rvdo. Padre J. Cuadros P.
157) Ayacucho 454, Moquegua.
158) Cas. 167, Tarma (Jun) – DG: Néstor Monteverde T.
159) Plaza San Francisco 369, Cuzco – DG: Julio G. Muñiz C.
160) Ap. 59, Cañete (Lima) – Gte: J.F. Sánchez de la R.
161) Av. Tacna 225, Lima – DG: Raúl Chepote G.
162) Calle Darío León 425, La Oroya – DG: Emilio Navarro C.
163) Av. Balta 658, of. 205, Chiclayo – DG: J. Carlos Montjoy D.
164) Ap. 203, Huancayo – DG: Horacio Gago E.
165) Ap. 19, Cerro de Pasco – Gte: Nicolás Herrera A.
166) Víctor Lira 105, 3er piso, Arequipa – DG: Segundo Villafuerte P.
167) Jr. Real 353, Mala (Lima) – Gte: Roberto Pachas C.
168) Ap. 23, Barranca (Lima) – Dir: Alcibíades Salazar S.
169) Piura 1010, Tumbes – DG: Gerardo Garrido P.
170) Jr. Democracia 128, Lima – Dir: Alejandrina Medrano P.
171) Arzobispado de Ayacucho, Ayacucho – Gte: Obispo Otoniel Alcedo.
172) Calle Real 455, Huancayo – DG: Max Guanay G.
173) Independencia 829, Trujillo – DG: Alejandro Valverde A.
174) Virrey Toledo 468, Huancavelica – DG: Fernando Cruz M.
175) Ap. 583, Cuzco – DG: E. Federico González P.
176) Cas. 4260, Lima – DG: Bartolomé Dextre F.
177) Cas. 201, Quillabamba (Cuz) – DG: Camilo A. Negrón A.
178) Fco. Irazola 525, Satipo (Jun) – DG: Isidora Guevara G.
179) Plaza Constitución, Palacio Arzobispal, Huancayo.
180) Inst. Linguístico de Verano, Pucallpa.
181) Alfredo Vargas Guerra 40, Contamana (Lor) – Gte: Layzamón Vargas S.
182) Cas. 24, Huanta (Aya) – Pte: J. Meza U. – **F.PL:** 5kW.
183) Mariscal Castilla 439, Jaén (Caj) – DG: Adán Vílchez R.
184) Ap. 8, Ayaviri (Puno) – DG: A. Solórzano M.
185) Jr. Cuzco 300, Abancay (Apu).
186) Ap. 370, Tacna – DG: Yolande de Cáleres.

SURINAM

L.T: GMT–3½h – **Pr.L:** Dutch, Sranang tongo, Hindi.

GOVERNMENT TELEGRAPH AND TELEPHONE ADMINISTRATION

ADDR: P.O. Box 1839, Paramaribo. **Cable:** Latel.
L.P: Dir: F. S. Latour.

RADIO PARAMARIBO (Comm.)
ADDR: Gravenstraat 118, Paramaribo. **Te:** 75161.
STATION: 600kHz 10kW.
HOME SCE: 0855-0330 – **Hindustani:** 0900-1045, 2315-0130 (Mon-Fri), 2315-0330 (Sat) – **Indonesian:** Mon-Fri 1930-2130; Sun 1330-1630. Other times in Dutch.
ANN: "Hier R. Paramaribo op vijfhondred meter of zeshonderd kilocycles".

RADIO APINTIE (Comm.)
ADDR: P.O. Box 595, Paramaribo. **Te:** 98800. **Cable:** Apintie.
L.P: Gen. Mgr: E. Vervuurt. St. Mgr: R. Heave. Chief Eng: L. de Freitas.
STATION: 820kHz 1kW.
HOME SCE. in Dutch: 0900-0330 – **Hindustani:** 1900-2130. **N. in Dutch:** 1800, 2230.
ANN: "Hier R. Apintie op de driehonderd en vijf en vijftig meter" – **INT-SIG:** The beat of the Apintie drum.

STICHTING RADIO OMROEP SURINAME (SRS-Gov, Comm).
ADDR: J. van Eerstraat 20, Paramribo. **Te:** 98115.
L.P: Dir: H. J. Janssen.
STATIONS: 725kHz 50kW – **FM:** 96.4MHz 10W.
HOME SCE. in Dutch: W 0930-0030, Sun 1015-0230. **N:** W 0950, 1130, 1800, 2130, 2200 – **Hindustani:** Sat 1800, 1930 – **Indonesian:** W 0855-0930, 1900-2000. Sun 0855-1015.
ANN: "Hier de SRS te Paramaribo op AM zevenhonderd vijf en twintig kilocycles, en op FM. zes en negentig komma vier megahertz" – **V.** by QSL-card or letter. Rec. acc.

RADIO RANI (Priv, Comm.)
ADDR: Waterloo-straat, Nieuw Nickerie. **Te:** 31462.
STATION: 914kHz 1kW.
HOME SCE: in Hindustani, Indonesian & Dutch: 0930-0130.

RADIKA (Comm.)
ADDR: Pad van Wanica 51, Paramaribo. **Te:** 82800.
STATION: 640kHz 10kW.
HOME SCE. in Hindustani: 0900-0130 (exc. for Indonesian).
Indonesian: W 1800-1830, 0030-0130.

ABC-RADIO (Comm.)
ADDR: Maystraat 57, Paramaribo. **Te:** 98765.
L.P: St. Mgr: A. Kamperveen.
STATION: 1030kHz 5kW.
HOME SCE. in Dutch: 0930-0330.

URUGUAY

L.T: GMT–3h – **Pr.L:** Spanish – **E.C:** a/c 50, 220V (yes).
ANTEL: Palacio de la Luz, 9 piso, Montevideo. Pres: Gral. Juan F. Miguez.

DIVISION CONTROL SERVICIOS RADIOTECNICOS
Sarandí 472, Montevideo – **L.P:** Dir: Cnel. Doroteo de León.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS (ANDEBU)
ADDR: Calle Yi 1264, Montevideo. **Te:** 84456. **Cable:** Andebu.
STATIONS: All st's comm. exc. 4), 37), 39).

Mediumwaves: °=Shortwaves.

	Call	kHz	kW	Name and h. of tr.
1)	CW1	550	10	R. Colonia, Colonia: 24h
2)	CX58	580	1	R. Clarín, Montevideo: 1030-0300
3)	CX4	610	5	R. Rural, Montevideo: 1030-0300
4)	CX6	°650	30	S.O.D.R.E., Montevideo: 1100-0300
5)	CW27	680	1.5	R. Tabaré, Salto: 0900-0400
6)	CX8	°690	20/10	R. Sarandí, Montevideo: 0800-0415
7)	CX10	°730	15	R. Continente, Montevideo: 1000-0500
8)	CX12	°770	125	R. Oriental, Montevideo: 0900-0430
9)	CX14	°810	50	R. El Espectador, Montevideo: 1000-0300
10)	CW23	820	1/0.5	R. Cultural, Salto
11)	CX16	°850	50	R. Carve, Montevideo: 0850-0400
9)	CX18	°890	10/5	R. Sport, Montevideo: 0930-0300
12)	CW17	900	0.25	R. Frontera, Artigas
13)	CX20	°930	30	R. Monte Carlo, Montevideo: 24h
14)	CW96	°960	1	Radio Yí, Duranzo
15)	CX22	970	5/1.5	R. Universal, Montevideo: 0900-0430
11)	CX24	1010	30	R. El Tiempo, Montevideo: 1100-0400
4)	CX26	°1050	10	S.O.D.R.E., Montevideo: 1100-0300
16)	CX28	1090	15/5	R. Imparcial, Montevideo: 24h
17)	CW31	1120	2	R. Salto, Salto
18)	CX30	°1130	10/5	La Radio, Montevideo: 0800-0500
19)	CX32	°1170	3	R. Sur, Montevideo: 1030-0300
20)	CW33	1200	1	R. Difusora Florida, Florida
21)	CX34	1210	2.5	R. Artigas, Montevideo: 1200-0300
22)	CW35	°1240	10	R. Paysandú, Paysandú: 0900-0300
23)	CX36	1250	5	R. Centenario, Montevideo: 1000-0300
9)	CW37	1260	3/1	R. Dif. Rochense, Rocha: 1100-0300
4)	CX38	°1290	10	S.O.D.R.E., Montevideo: 1100-0300
4)	—	1290	1	S.O.D.R.E., Carmelo: 1100-1600, 2200-0200
24)	CW39	1320	0.5/0.1	La Voz de Paysandú, Paysandú: 0855-0500
25)	CX40	°1330	1	F. Feniz, Montevideo: 0800-0500
26)	CW53	°1340	2.5/1	La Voz de Melo, Melo: 0900-0400
27)	CW41	1360	2.5	Broadc. San José, San José
28)	CX42	1370	2.5	R. Vanguardia, Montevideo
29)	CW137	1370	1	R. San Javier, San Javier
30)	CW45	v1388	2.5/1	Dif. Treinta y Tres: 0900-0400
31)	CX140	1400	10	R. Zorrilla de San Martin: Tacuarembó: 0900-0400
32)	CV141	1410	0.25	R. Belen, Belen, Salto: 1100-0300
33)	CX44	1410	5	R. Color Panamericana, Montevideo: 0910-0600
34)	CW142	°1420	5	La Voz de Artigas, Artigas: 1000-0300
35)	CW43	1420	5/0.5	R. Lavalleja, Minas: 1030-0300
36)	CX142	1420	0.1	R. Felicidad, Paysandú
37)	CW25	°1430	5/1	R. Durazno, Durazno: 1000-0300
38)	CX144	v1445	0.25	R. Rivera, Rivera (nom.1440)
39)	CX46	1450	2	R. América, Montevideo: 0900-0300
40)	CW145	1450	1/0.25	R. Arapey, Salto: 1000-0300
41)	CW46B	1460	0.25	Liceo de Dolores, Soriano
42)	CW146	1460	0.03	Liceo de Castillos, Castillos
43)	CX147	°1470	1.5	R. Montevideo Canelones en El Eter, Las Piedras: 0930-0400
44)	CW147	1470		R. Tacuarí, Melo
45)	CW148	1480	0.1	R. Centro, Cardona: 0900-0100
46)	CV148	1480	0.1	R. Chuy, Chuy
47)	CW43B	°1480	1.5/0.75	R. Internacional, Rivera: 0930-0300
48)	CW149	1490	0.1	R. Agradeciada, Mercedes: 0900-0400
49)	CX48	1490	1.5	R. Femenina, Montevideo: 1200-0230

	Call	kHz	kW	Name and h. of tr.
50)	CW47B	v1510	0.25	R. Berna, Nueva Helvecia: 0900-0400
51)	CW57	1510	0.1	R. San Carlos, San Carlos: 1030-0200
52)	CW151	1510		R. San Gregorio, San Gregorio De Polanco
53)	CX152	1520	2	R. Cerro Largo, Melo: 0925-0300
54)	CX50	v1530	1.2	R. Independencia, Montevideo: 0930-0400
55)	CV153	1530	0.2	R. Rincón, Fray Bentos: 1000-0300
56)	CW153	1530	1	R. Tacuarembó, Tacuarembó: 0900-0400
57)	CV154	1540	0.1	R. Guichón, Guichón: 1000-0100
58)	CX154	1540	0.25	R. Olimar, Treinta y Tres: 0900-0300
59)	CX155	1550	1/0.25	R. Carmelo, Carmelo: 1000-0300
60)	CV155	1550	0.25	R. Atlántica, Castillos
61)	CW155	1550	0.25	R. Sarandí del Yí, Sarandí del Yí
62)	CW51	1560	2	R. Maldonado, Maldonado: 0930-0400
63)	CX156	1560	0.1	Dif. Americana, Trinidad
64)	CV156	1560	1	R. Vichadero: 1100-0200
65)	CW52	1570	0.25	R. Litoral, Fray Bentos
34)	CV157	v1570	1	R. Bella Unión, Bella Unión: 1030-0300
66)	CW157	1570	0.5	R. Democracia, Cerro Chato: 1030-0300
67)	CX157	1570	0.1	R. Canelones: 1100-0300
68)	CX158	1580	0.1	R. Paso de los Toros, Paso de los Toros: 1000-0300
69)	CW54	1580	0.5	Emisora del Este, Minas: 1000-0300
70)	CW158	1580	0.5	R. Reconquista, Rivera: 0900-0500
71)	CV159	1590	2	R. Regional Constitución, Salto: 1100-0300
72)	CX159	1590	0.25	R. Real, Colonia: 1000-0300
73)	CV160	1600	0.05	Nueva Em. Continental, Pando: 1000-0300
74)	CW56	1600	0.25	Difusora Soriano, Mercedes: 0800-0400
75)	CX160	1600	0.25	R. Rio Branco, Rio Branco
76)	CW160	v1600	0.1	R. Fortaleza, Rocha: 1100-0300

Shortwaves: Call CX--. Location: Montevideo exc. where indicated.

37)	CW25	4890	1	R. Durazno, Durazno: 0900-2000
47)	—	4910	0.15	R. Internacional, Rivera: irr.
34)	CW142	4945	1	R. La Voz de Artigas, Artigas: Sat/Sun: 1000-0300
14)	CW96	4970	1	R. Yi, Durazno: 0900-2000
43)	CW147	4975	1	R. Montevideo, Canelones en El Eter, Las Piedras: irr.
22)	—	4990	2	R. Paysandú, Paysandú: irr.
6)	A5	6010	10	R. Sarandi: 0800-1800
18)	CXA30	6035	1	La Radio, Montevideo: 1500-0300
9)	A61	6045	1	R. Dif. del Uruguay: 1000-0300
26)	A53	6055	5	La Voz de Melo: irr. 1500-1545
7)	A3	6075	2	R. Continente: 1030-2230
4)	A4	6125	10	S.O.D.R.E.
13)	A20	6140	10	R. Monte Carlo
11)	A18	6155	10	R. Carve: irr: 2300-0200
25)	A21	6170	1	R. Fenix: Sun 1900-2300
6)	A71	9515	10	R. Sarandí: 0130-0415
4)	A6	9620	0.8	S.O.D.R.E: 1100-0300
8)	A7	11735	10	R. Oriental: 1300-0430
9)	A19	11885	5	R. El Espectador: irr: 1000-0300
6)	A68	11885	10	R. Sarandí: 1800-0130
26)	A64	15225	25	La Voz de Melo
4)	A14	v15270	0.8	S.O.D.R.E: 1000-0130

Addresses and other information

1) Rivadavia 383, Colonia – Dir: A. Carioni.
2) Av. 18 de Julio 1516, Montevideo – Mgr: F.D. Tourreilles.
3) 18 de Julio 1513, Montevideo – Mgr: R. Barreto.
4) Mercedes 823, Montevideo – Dir: J. Bravo.
5) Uruguay 655, Salto,
6) Corporación Publicidad S.A, Enriqueta Compte y Rique 1282, Montevideo – Dir: N. Mullins.
7) Calle German Barbato 1472, Montevideo – Dir: Heber Pinto.
8) Calle 18 de Julio 1224, Montevideo – Dir: D. Romay S.
9) Difusoras del Uruguay S.A, Soriano 1287, Montevideo – Dir: J.L. Betsso; CX18 Dir: R. López B; CW37 Julian Graña 119, Rocha.
10) Lavalleja 42-48, Salto – Dir: R.J. Vinci.
11) Mercedes 973, Montevideo – Dir: A.R. Fontaina.
12) Calle Garzón 428, Artigas – Dir: B. Borgato.
13) 18 de Julio 1224, Montevideo – Dir.Gen: D. Romay S.
14) Zorilla de San Martín 875, Durazno – Dir: T.B. Rodriguez C.
15) Soriano 1217, Montevideo – Dir: O. Imperio.
16) Av. Agraciada 1708, Montevideo – Dir: J.J. Figueira.
17) Brasil 715, Salto – Dir: E. Pera.
18) O.R.O.S.A, Plaza Independencia 846, Montevideo – Dir: J. German Araujo.
19) Compañia Uruguaya de Publicidad S.A, Colonia 1280, Montevideo – Dir: C. Camou Fabini.
20) Gallinal 696, Florida – Dir: L.S. Dini.
21) Av. Millán 2370, Montevideo.
22) 18 de Julio 1044, Paysandú – Dir: A. Ordoqui.
23) Calle Germán Barbato 1364, Montevideo – Mgr: G. Milovan.
24) 18 de Julio 614, Paysandú – Dir: E. Estefanell.
25) Canelones 1969, Montevideo – Dir: M. Racioppi.
26) Montevideo 721, Melo – Dir.Gen: R. Lucas.
27) Treinta y Tres 890, San José – Dir: R. Sguilla.
28) Calle Charrua 2024, Montevideo – Dir: A. Jizmeyian.
29) San Javier, Rio Negro – Dir: D. Jajulin.
30) Pablo Zufriátegui 226, Treinta y Tres – Dir: A. Pinho.
31) 18 de Julio 304/10, Tacuarembó – Dir: L.S. Dini.
32) Calle Solis s/n, Belen, Salto – Dir: J.C. Arredondo.
33) 18 de Julio 965, Montevideo – Dir: H. Brugnini.
34) Av. Lecueder 291, Artigas (CV157: Lirio M. Morales 68, Bella Unión) – Dir: L. Murillo M.
35) José E. Rodó 530, Minas – Dir: J.R. Volante.
36) Calle 18 de Julio 817, Paysandú – Mgr: N.R. Cabillón.
37) Dr. E. Penza 805, Durazno – Dir: J.C. Stajano Wilson.
38) Calle Ituzaingó 580, Rivera – Dir: D'artagnant L. Pedezert.
39) Plaza Independencia §46, Montevideo – Dir: L. Svirski.
40) Larrañaga 84, Salto – Dir: H. Pereira M.
41) Liceo de Dolores, Soriano.
42) Castillos.
43) Rivera 640, Las Piedras – Dir.Gen: J.O. Cabrera.
44) Calle Gral. Artigas 623, Melo.
45) Calle La Valleja s/n, Cardona, Soriano – Dir: Artemio Martínez D.
46) Calle Laguna de los Patos s/n, Chuy – Mgr: A. Francois.
47) Av. Sarandí 792, Rivera – Dir.Gen: J.J. Figueira.
48) E. José Rodó 781, Mercedes – Dir: N. Graña.
49) Millán 2370, Montevideo.
50) Berna 1375, Nueva Helvecia, Colonia – Dir: R.A. Ravazzani.
51) Sarandí 774, San Carlos, Maldonado – Dir: E. Lamaison.
52) San Gregorio de Polanco – Dir: N. López.
53) Ituzaingó 660, Melo – Mgr: V. Oribe de Traibel.
54) Paysandú 1186, Montevideo – Mgr: A. Rupenian.
55) Av. Treinta y Tres 3223, Fray Bentos – Dir.Gen: O.R. Donato B.
56) Ituzaingó 246, Tacuarembó – Dir: A. Pandolfi.
57) Calle Trabajo 360, Guichon, Paysandú – Mgr: A. Luces.
58) Calle Joaquin Artigas s/n, Treinta y Tres – Dir: Wilson Elso Góñi.
59) 19 de Abril 444, Carmelo – Dir: U. Lobecio.
60) Ferrer y Treinta y Tres, Castillos – Dir: J. Gómez T.
61) Ituzaingó 515, Sarandí del Yi, Durazno – Dir: A. Franco
62) Isla de Gorriti 819, Maldonado – Dir: E. Lamaison N.
63) 25 de Agosto 724, Trinidad – Dir: H. Pesquera.
64) Av. Pte. Kennedy, Vichadero, Rivera – Dir: J.G. Godiño.
65) Av. 18 de Julio y 25 de Agosto, Fray Bentos – Dir: M.M. Racioppi.

66) Calle Benito Alvarez 701, Montevideo – Mgr: H. Paglieta.
67) José E. Rodó 328, Canelones – Dir: W. Espiga.
68) 18 de Julio 743, Paso de los Toros – Dir: N. Gómez B.
69) Calle Treinta y Tres 632, Minas – Dir: L. Svara.
70) Ituzaingó 595, Rivera – Dir: J.G. Godiño.
71) Calle Artigas 120, Constitución – Mgr: C. Gelpi C.
72) Av. Gral. Flores 468, Colonia.
73) 18 de Julio 933, Pando, Canelones – Dir: L.M. Melide.
74) Florida 568, Mercedes – Dir: M.M. Racioppi.
75) Rio Branco, Cerro Largo – Dir: R.D. Lucas.
76) Zorilla de S. Martín 200, Rocha – Dir: H. Casals O.

VENEZUELA

L.T: GMT–4h – **Pr.L:** Spanish – **E.C:** a/c 50+60, 120/240V (yes).

MINISTERIO DE COMUNICACIONES

ADDR: Dirección de Telecomunicaciones, División de Radiodifusión, Esq. Carmeliteas, Edif. Ramia, Caracas. **Cable:** Diteleco.
L.P: Dir.of Telecommunications: Ing. F. Miralles.

CAMARA VENEZOLANANA DE LA INDUSTRIA DE RADIODIFUSION

ADDR: Ap. 3955, Caracas. **Cable:** Camradio.

STATIONS: All st's comm. exc. 11)(Gov) and 1), 4), 83) (Cult). H. of tr: 1000-0400 exc. where indicated.
Mediumwaves: Call YV--. °)=shortwave; v=varying freq; *)=inactive.

	Call	kHz	kW	Name, location and h. of tr.
1)	UR	540	25	R. Codesur, S. Juan de Manapiare
2)	OV	r540	10	R. Perijá, Villa del Rosario (nom. 800)
3)	KE	°550	10	R. Mundial, Caracas
4)	JA	v560	5	R. Dif. del Ejecutivo del Edo. Apure, San Fernando de Apure
5)	LX	°570	400	R. Rumbos, Villa de Cura: 0855-0600
6)	MJ	°580	10	La Voz de la Fé, Maracaibo
7)	KL	°590	20	R. Continente, Caracas: 0930-0500
8)	QB	°600	10	R. Sucre, Cumaná
9)	SE	610	10	R. Cristal, Barquisimeto
10)	NO	620	10	R. Libertad, Cabimas
4)	JA	r625	5	R. Dif. del Ejecutivo del Edo. San Fernando de Apure.
11)	KA	°630	10	R. Nacional, Caracas
11)	SL	630	10	R. Nacional, San Cristóbal
12)	QO	640	50	Ondas Porteñas, Puerto La Cruz: 24h
13)	LH	°650	50	R. Visión, Maracay
14)	NA	660	10	Ondas de los Médanos, Coro
5)	LL	°670	100	R. Rumbos, Caracas: 0855-0600
15)	QR	680	10	R. Cumaná, Cumaná
9)	MR	°690	50	R. Barquisimeto, Barquisimeto
16)	MH	700	10	R. Popular, Maracaibo
17)	KY	°710	50	R. Capital, Caracas
18)	OE	720	5	R. Visión Oriente, Porlamar
9)	MT	°730	10	R. Universo, Barquisimeto
19)	NC	°740	10	R. Maracaibo, Maracaibo: 0900-0400
20)	KS	°750	10	R. Caracas, Caracas: 24h
21)	QQ	°760	10	R. Puerto La Cruz
11)	KK	770	50	R. Nacional, Valencia
22)	OD	°780	10	Ecos del Torbes, San Cristóbal: 0955-0400
23)	KC	°790	5	R. Dif. Venezuela, "La Est. de la Alegría", Caracas
2)	OV	800	10	R. Perijá, Villa de Rosario
24)	LP	810	10	R. Visión 810, Valencia
25)	SH	820	10	R. Guayana, Upata
26)	LT	°830	50	R. Sensación, S. Antonio de los Altos: 0900-0500
9)	MY	°840	10	R. Juventud, Barquisimeto
27)	LD	°850	10	R. Impacto, Valencia
28)	OL	860	10	R. Visión 860, San Cristóbal
29)	KU	°870	5	R. Libertador, Caracas: 0955-0400
9)	MP	°880	10	R. Lara, Barquisimeto: 0958-0400
30)	LW	890	10	R. América, Valencia: 0950-0400
31)	MD	°900	10	R. Mara, Maracaibo
32)	RQ	910	10	R. Aeropuerto, Maiquetía: 24h
33)	QX	°920	10	R. Nueva Esparta, Porlamar
34)	LJ	930	10	R. Maracay, Maracay: 24h
35)	NW	940	10	R. Punto Fijo, Punto Fijo
36)	KG	950	100	R. Visión, Caracas
37)	RB	°960	10	R. Monagas, Maturín
38)	SR	°960	20	R. San Sebastián, San Cristóbal
39)	LR	970	10	R. Central, Maracay
40)	SD	°970	10	R. Turismo, Valera
41)	QM	°980	10	La Voz del Tigre, El Tigre: 1000-0300
42)	TB	980	10	Exitos Novecientos Ochenta, Maracaibo
43)	RT	°990	10	R. Tropical "La Pantera", Caracas
44)	TA	°990	10	R. Tricolor, Barquisimeto: 0900-0400
45)	OA	°1000	10	R. Táchira, San Cristóbal
46)	NM	1000	10	R. Mil, Morón
47)	PC	1010	10	R. Aragua, Cagua
48)	QE	°1010	10	R. Bolívar, Cd. Bolívar
49)	MX	°1020	10	R. Calendario, Maracaibo
50)	RS	1020	10	R. Margarita, La Asunción: 0955-0500
51)	TD	°1030	10	R. Valles del Tuy, Ocumare del Tuy
52)	QY	1030	10	R. Onda, Guanare: 0900-0300
53)	ON	°1040	10	R. Los Andes, Mérida: 1030-0230
54)	LB	°1040	10	La Voz de Carabobo, Valencia
11)	KZ	1050	10	R. Nacional, Caracas
55)	NU	v1050	10	R. Caroní, San Félix
56)	LN	°1060	1	R. Guárico, San Juan de los Morros
57)	DE	°1060	5	R. San Cristóbal, San Cristóbal
58)	KW	°1070	1	R. Mil Setenta, La Guaira
59)	HA	1070	10	R. Zulia, Maracaibo: 24h
60)	NR	1080	10	R. Universal, Maracay
61)	QJ	°1080	10	R. Barcelona, Barcelona
62)	PB	°1090	10	R. Yaracuy, San Felipe
63)	SZ	1090	5	Exitos Diez Noventa, Caracas
64)	TG	1090	5	R. Visión Machiques, Machiques
65)	OP	°1100	1	R. Occidente, Tovar: 1030-0200
66)	SW	°1100	10	R. Angostura, Cd. Bolívar: 0900-0430
67)	OT	1110	10	R. Carúpano, Carúpano
68)	RX	1110	10	R. Mía, Valencia: 24h
69)	MF	1120	10	Ondas del Lago, Maracaibo: 0900-0500
70)	RU	1130	10	R. Litoral, Caraballeda
71)	PY	1130	1	R. Amazonas, Puerto Ayacucho: 1100-0200
72)	MU	°1140	10	R. Carora, "YVMU Musical", Carora: 0955-0400
73)	OO	°1140	10	R. Frontera, San Antonio
74)	MM	1150	10	Ondas del Caribe, Punto Fijo: 24h
75)	QD	1150	1	Ecos del Orinoco, Cd. Bolívar
76)	OK	°1160	1	R. Universidad, Mérida: 1100-0400
77)	RR	1160	10	R. Industrial, Guarenas: 1000-0200
78)	QV	1170	10	R. Acarigua, Acarigua
79)	PX	1170	5	R. El Sol, La Fría
80)	OR	°1180	10	R. Maturín, Maturín
81)	NJ	1180	10	R. Petrolera, Cd. Ojeda: 0900-0700
82)	RE	1190	10	R. Barinas, Barinas
83)	ZD	1190	10	R. Dif. Cultural del Tachira, San Cristóbal: 1300-0200
32)	OZ	°1200	10	R. Tiempo, Caracas: 24h
84)	WA	1200	1	Ondas del Escalante, Sta. Bárbara del Zulia
85)	MN	v°1210	10	R. Coro, Coro
86)	QZ	°1210	10	R. Anzoátegui, Barcelona
87)	RD	°1220	10	La Voz de Apure, San Fernando de Apure: 1100-0200
88)	ZO	1220	10	R. Aeropuerto Internacional, Maracaibo
89)	NT	v1230	10	R. Barlovento, "1230 Musical", Caucagua
90)	OH	°1230	10	R. Valera, Valera
91)	LQ	1240	10	YVLQ R., La Victoria: 1100-0200
92)	SF	1240	10	R. Dimensión, Caripito: 1000-0300
93)	PZ	1250	10	R. Puerto Ordaz: 0900-0400
94)	ML	°1250	1	R. Cabimas, Cabimas: 1000-0300
95)	RM	1260	10	R. Impacto, Caracas
96)	RY	1260	1	R. Horizonte, Nirgua: 1100-0200
97)	OU	°1270	1	Ondas Panamericanas, El Vigía
98)	TR	1270	1	R. Tucupita, Tucupita
99)	QS	°1280	1	R. Zaraza, El Tamarindo
100)	LF	°1290	10	R.Puerto Cabello, Puerto Cabello

	Call	kHz	kW	Name, location and h. of tr.
101)	PF	°1290	10	R. Canaima, San Félix
102)	KH	1300	10	R. Trece, Petare
103)	NS	1300	10	R. Reloj, Maracaibo
104)	SA	1310	1	R. Centro, Tinaquillo
105)	ZX	1310	5	R. República, "La Estación Feliz", Maturín
106)	TS	1310	5	R. Visión Andina, Isnotú
107)	IC	1310	5	R. Bonita, Guatire
108)	ZR	1320	10	R. Continental, Barinas: 1100-0500
109)	WP	1320	1	R. Apolo, Turmero
110)	SG	1320	5	R. Colonial "Canal 13", Tocuyo
111)	OY	1330	1	R. Los Llanos, Calabozo
112)	PJ	1330	1	R. Rubio, Rubio: 1000-0300
113)	TU	1330	5	R. Visión Regional, Ciudad Ojeda
114)	QU	1340	1	R. San Carlos, San Carlos: 0955-0300
115)	NE	1340	5	R. Uno Petare: 1000-0600
116)	ZZ	1350	10	R. Guanipa, "La Cariñosa", El Tigrito: 0930-0330
117)	TL	1350	5	R. Visión, Caja Seca
118)	TJ	1350	5	R. Visión, Cumarebo
119)	TI	°1360	5	Catatumbo Internacional, El Moján
120)	TZ	°1360	1	R. Guaicaipuro, Charallave: 1000-0300
121)	TW	1360	10	R. Alegría, Chivacoa: 1000-0300
122)	LO	°1370	5	R. La Pascua, Valle La Pascua
123)	UI	1370	5	R. Cumbre, Ejido
124)	SV	1370	5	R. Portuguese, Araure
125)	JC	1380	5	R. Independencia, Soledad
126)	JD	1380	5	Ondas del Mar, Puerto Cabello
127)	OW	*1380	1	R. Boconó, Boconó
6)	ZC	1390	1	R. Selecta, Maracaibo: 1100-0100
128)	TT	1390	5	R. Terepaima, "R. Vision Lara", Cabudare
129)	JB	1400	1	R. Sabana, El Sombrero: 1000-0300
130)	ZJ	1400	5	R. Juvenil, Barinas
131)	ZT	1400	5	R. Anaco, Anaco
132)	NY	*1410	1	R. Guiria, Guiria
133)	ST	1410	5	R. Clarin, Turén
134)	OF	°1420	1	R. Trujillo, Trujillo: 1100-0200
135)	—	1420	5	R. Visión Zuliana, Maracaibo: 0900-0300
136)	JA	1430	5	R. Satélite, Guacara
137)	IT	1430	1	R. Altura, La Grita
138)	SN	1430	5	R. Caicara, Caicara
139)	RF	1440	1	R. Orituco, Altagracia de Orituco
140)	TY	°1440	10	R. Sucesos, Táriba: 0955-0400
141)	ZI	1440	5	R. Estelar, Guanare
142)	ZQ	1450	5	R. Visión, Puertos de Altagracia
143)	JJ	1450	5	R. Landia, "Canal Marino", Catia la Mar
144)	JW	1470	5	R. Latina, Valencia: 1000-0500
145)	SQ	°1490	2.5	R. Mérida, Mérida: 24h
146)	JR	1600	5	R. Melodía, Barquisimeto: 1000-0400

Shortwaves: Call YV--; *) inactive.

	Call	kHz	kW	Name and h. of tr.
33)	PL	2340	1	R. Nueva Esparta, Porlamar
56)	PH	*2350	1	R. Guárico, San Juan de los Morros
32)	PD	2400	1	R. Tiempo, Caracas
4)	PM	*2430	1	Escuelas Radiofónicas, San Fernando
13)	LG	*2440	1	R. Visión, Maracay
111)	OX	*2450	1	R. Los Llanos, Calabozo
97)	ZV	5215	1	Ondas Panamericanas, El Vigía
65)	TC	3225	1	R. Occidente, Tovar: 1030-2230
58)	PM	3235	1	R. 1070, La Guaira: 1000-0300
29)	KT	3245	1	R. Libertador, Caracas: 0955-0400
41)	QL	3255	1	La Voz del Tigre: 1000-0300
31)	MC	3275	1	R. Mara, Maracaibo
100)	LE	3285	1	R. Puerto Cabello
134)	OG	3295	1	R. Trujillo: 0955-0300
34)	LI	3315	1	R. Maracay: 1100-0600
37)	RA	3325	5	R. Monagas, Maturín
27)	LC	3355	1	R. Impacto, Valencia: 1000-0300
21)	QP	3365	1	R. Puerto La Cruz: 0955-0400
6)	MI	r3375	3	La Voz de la Fé, Maracaibo
61)	QI	3385	1	R. Barcelona: 2100-0400
76)	QJ	3395	1	R. Universidad, Mérida: 1100-0400
73)	PP	4760	1	R. Frontera, San Antonio: 1000-0300
48)	NW	4770	1	R. Bolívar, Cd. Bolívar: 0930-0400
54)	LA	4780	1	La Voz de Carabobo, Valencia: 1000-0355
9)	MO	4800	10	R. Lara, Barquisimeto: 0958-0400
16)	MG	4810	2	R. Popular, Maracaibo: 0955-0400
87)	RC	4820	1	La Voz de Apure: 1100-0200
44)	WJ	4820	1	R. Tricolor, Barquisimeto
45)	OB	4830	1	R. Táchira, San Cristóbal: 1000-0500
90)	OI	4840	1	R. Valera
17)	KX	4850	1	R. Capital, Caracas
19)	QE	4860	10	R. Maracaibo, Maracaibo: 0900-0400
43)	KP	4870	2	R. Tropical, "La Pantera", Caracas
9)	MS	4880	10	R. Universo, Barquisimeto
23)	KB	4890	5	R. Dif. Venezuela, "La Est. de la Alegría", Caracas: 0955-0400
9)	NK	4900	10	R. Juventud, Barquisimeto
72)	NI	4910	1	R. Carora, Carora: 0955-0400
20)	KR	*4920	1	R. Caracas, Caracas
6)	MI	4930	3	La Voz de la Fé, Maracaibo
62)	PA	4940	10	R. Yaracuy, San Felipe
85)	NM	4950	1	R. Coro, Coro
8)	AO	v4960	1	R. Sucre, Cumaná
5)	LK	4970	10	R. Rumbos, Villa de Cura: 0855-0600
22)	OC	4980	10	Ecos del Torbes, San Cristóbal
9)	MQ	4990	15	R. Barquisimeto
127)	RW	*5010	1	R. Boconó, Boconó
11)	MK	5020	1	R. Nacional, Caracas
7)	MK	5030	10	R. Reloj Continente, Caracas: 0930-0500
80)	QH	5040	1	R. Maturín: 0900-0400
3)	KD	5050	2	R. Mundial, Caracas: 1000-0500
9)	PI	*5980	1	R. Cristal, Barquisimeto
26)	NL	6000	5	R. Sensación, S.Antonio de los Altos: 0900-0500
58)	SB	6010	1	R. Los Andes, Mérida
86)	WK	6020	1	R. Anzoátegui, Barcelona
38)	SR	6070	10	R. San Sebastián, San Cristóbal
99)	QV	6080	1	R. Zaraza, El Tamarindo
122)	PK	6090	5	R. Dif. la Pascua, Valle de la Pascua
94)	NK	6110	1	R. Cabimas: 1000-0300
66)	SX	6120	1	R. Angostura, Cd. Bolívar: 0900-0430
51)	TE	6130	1	R. Valles del Tuy, Ocumare del Tuy
128)	ZS	*6140	1	R. Terepaima, Cabudare
120)	NX	6150	2	R. Guaicaipuro, Charallave
101)	WO	6160	1	R. Canaima, San Félix: 0930-2200
11)	KO	6170	20	R. Nacional, Caracas: 0900-0455
40)	SD	6180	1	R. Turismo, Valera: 1055-0400
22)	PC	6190	1	Ecos del Torbes, San Cristóbal
9)	XJ	9510	10	R. Barquisimeto Internacional: 1200-0400
49)	MZ	9530	2	R. Calendario/R. Mara, Maracaibo: irr.
57)	OM	*9570	10	R. San Cristóbal
119)	TV	*9620	1	Catatumbo Internacional, El Moján
11)	SC	*9640	10	R. Nacional, Caracas
5)	LM	9660	10	R. Rumbos, Caracas: 0855-0600
21)	QP	*9680	1	R. Puerto La Cruz, Pto. La Cruz
37)	WL	*9680	1	R. Monagas, Maturín
145)	SQ	*9690	25	R. Mérida, Mérida
140)	TH	9700	1	R. Sucesos, Táriba: 0955-2200
65)	OS	9750	10	R. Occidente, Tovar: irr.
11)	LS	11710	50	R. Nacional, Caracas
11)	RN	11750	30	R. Nacional, Maracaibo: 0000-0200
11)	RO	15390	30	R. Nacional, San Cristóbal: 2200-2400

State abbreviations (Estados): Anz=Anzoátegui; Apu=Apure; Ara=Aragua; Bar=Barinas; Bol=Bolívar; Car=Carabobo; Coj=Cojedes; Fal=Falcón; Gua=Guárico; Lara; Mer=Mérida; Mir=Miranda; Mon=Monagas; Nes=Nueva Esparta; Por=Portuguesa; Suc=Sucre; Tach=Táchira; Tru=Trujillo; Zul=Zulia; Yar=Yaracuy.
Federal territories: Ama=Amazonas; DAm=Delta Amacuro. **N.B:** These abbreviations are not officially recognised by the Venezuelan P.O. Letters should therefore carry full name.

Addresses and other information
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4) Oficina de Educación de Adultos, San Fernando, Apu.

5) Ap. 2618, Caracas – Pte: Andrés Serrano T. Gte: N. Colmenares H.
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139) Calle Andrés E. Blanco, Altagracia de Orituco, Gua.
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143) Qta. Sonia, Av. Tacagua, Urb. Atlántida, Catia la Mar, DF, or: Ap. 3708, Caracas 101.
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ANTARCTICA

(International Continent)

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L.P: St.Mgr: William R. Carter.
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D.PRGR: 24h for entertainment of the US Navy personnel and other scientists who participate in the "winter-over" teams which rotate each 6 months in Spring and Fall seasons.

DX-PROGRAMMES

ARGENTINA: R. Nacional de Tucuman (LRA15): "TDXC Calling DX-ers" (in Spanish) (Editor: C.L. Kostzer): Thurs 0230.
AUSTRALIA: R. Australia: "DX-ers Calling": Sun 0240, 0840, 1440, 2040 – **Japanese:** "DX Times": Sun 1042 – **R. St. 3NE:** Sun 1240 (Oct-Apr one h. earlier). "World at Your Fingertips" (by Robert Chester, ARDXC).
AUSTRIA: ORF: English: "Shortwave Panorama": Sun 0915, 1805; **German:** "Kurzwellen Panorama": Sat 1330; **French:** "DX-d'Autrich" 1st and 3rd Fri/Sat in prgrs at 2030, 0100, 0800; **Spanish:** "Boletin DX": Wed 1400, 2210; Thurs 0100, 0300.
BELGIUM: English (Editor: Paul Renard): 4th Sun/Mon 1730, 0015; **French:** Fri 1900; **Dutch:** 4th Tues 2105; **Spanish:** 4th Sun 2245.
BULGARIA: R. Sofia: Fri 1930, 2130, Sat 0000, 0430. **German:** 1st and 3rd Sun 2000. **French:** 1st Sun 1900, 2100.
CZECHOSLOVAKIA: R. Prague: English: Wed 2000, 2130. To No. America: Fri 0100, 0300. **French:** 1st Sun 1830, 2030. **Spanish:** 1st Sun/Mon (for Latin America), 2300, 0200. **Portuguese:** 1st Sun 2230, 2400. **German:** 1st Thurs 1900. For Austria: 2nd Tues 1800.
ECUADOR: R. St. HCJB: "DX Party Line" (Editor: Clayton Howard): Mon/Thurs/Sat no times available; Tues/Thurs/Sun 0230. **Swedish:** Fri 0530, 2130. **German:** no times available. **Japanese:** Fri 1130, Sun 1200. **Spanish:** Thurs 0145.
FINLAND: Tues/Wed in English trs at 1330, 1430, 1900, 2000, 0330.
GERMANY: "Deutsche Welle" (DX-Editor: G.G. Thiele): German/English: 2nd Sat of the month at 0840, 1040, 1240, 1440, 1740, 1940, 2210, 0040, 0140, 0340, 0540. **In Japanese** (Hoso Majagen): Every 3rd Tues 1140-1200. **In Spanish:** Every 3rd Sun of the month.
Radio Berlin International: RBI DX-Club: English: Tues in all prgrs.
Sender Freies Berlin: "Unser Kurwellenbummel" every 4th Sat 9845 and every 4th Sun 0645. Also over **Suddeutscher Rundfunk.** Every 4th Sat: 1545.
Deutschlandfunk: Swedish: "MW 1268" (DX-Editor: A. Riewesel): Wed/Sat 2045. **Norwegian:** Tues 2015. **Danish:** Fri 1945.
English (DX-Circle): Wed 1900 (weekly). **Dutch:** 3rd Mon 1825. **Italian:** Mon 2150.
RIAS: German (Editor: A. Amler): Last Mon 2235, 1st Sun (repeat) 1105.
GT. BRITAIN: BBC "World Radio Club" (Editor: Reg. Kennedy): Wed 1330, 2315, Fri 2100, Sun 0815. **Finnish:** Last Sun in 1700 transmission.
HOLLAND: R. Nederland Wereldomroep: "DX-Jukebox": Thurs 0642, 0812, 0942, 1412, 1842, 2142; Fri 0212, 0512. In **French:** Tues 1857, 2027; Sun 1900, 2030. **Spanish:** Fri/Sat 1250, 2020, 2150, 2320, 0050, 0220, 0350.
HUNGARY: R. Budapest: 1400-1415 (Sat in German), 1515-1530 (English Tues & Fri, German Wed, Italian Mon & Thurs); 0400-0415 to No. America (English Wed and Sat, Spanish Tues and Fri).
ISRAEL: English (DX-Editor: Ben Dalfen): Sat 2025, 2255.
JAPAN: R. Japan: "Tokyo Calling": **English** (weekly): Sun 0810, 1000, 1010*, 1125, 1410*, 1840, 2025, 2310*; Mon 0015, 0200, 1640 (*=General Sce), **German** (DX-Corner): Sat 0710.
MONACO: Trans World Radio: "DX-Special" (Editor: Al Stewart): Sat 0940, 1500.
NETHERLANDS ANTILLES: Trans World Radio: "DX-Special": Thurs 0045, Sat 1205.

NEW ZEALAND: R. New Zealand: "Arthur Cushens DX World" 1st Sun of the month 0915 (March-Oct 1015) (The World's only DX-Session, written, produced and broadcast by a listener from his own listening).
POLAND: Polskie Radio: Swedish: Thurs 1600, 1800. **Finnish:** 2nd Thurs of month 1530, repeated following Fri 2000. **Danish:** 1st Sat of the month 1530, repeated following Sun 2030.
PORTUGAL: Adventist World Radio: Sun 0930 (over R. Trans Europe) produced by World DX-Club, England. In **French:** Sun 0730 (Malta).
ROMANIA: R. Bucharest: Wed/Fri 1930, 2100. Thurs/Sat 0130, 0400 – **German:** Sat 1200.
SEYCHELLES: FEBA: "DX-Postbag": Alternate Sat 1240.

SO. AFRICA: R. South Africa: English: "DX-corner" (Editor: Gerry E. Wood): Wed/Sat: 1640, 2140, 2310 (different prgrs), Thurs 1435 (repeat of Wed prgrs); **French:** Thurs at the end of 1200 prgr; Sun at the end of 1800 and 2000 prgrs; **German** (Editor: W. Denzin): Tues & Sat within 1800 prgr. **Dutch:** Tues/Thurs/Sat within 1700 prgr.
SRI LANKA: "R. Monitors International": Sun 1350.
SWEDEN: R. Sweden: (DX-Editor: Arne Skoog): Every Tues during daily ½h broadc. in English, French, German, Spanish, Russian; Sat in Portuguese.
SWITZERLAND: SBC European and Overseas Service: "Swiss Shortwave Merry-Go-Round": 2nd and 4th Sat/Sun 0700, 0900, 1100, 1315, 1530, 2100, 0145, 0430.
USSR: R. Moscow (DX-Club): Wed 1222, Sun 2022; Thurs 2315, 0015, 0315 (Eastern No. America); 0345, 0515, 0715 (Western No. America). **Danish:** Fri 1700, Sat 2030.

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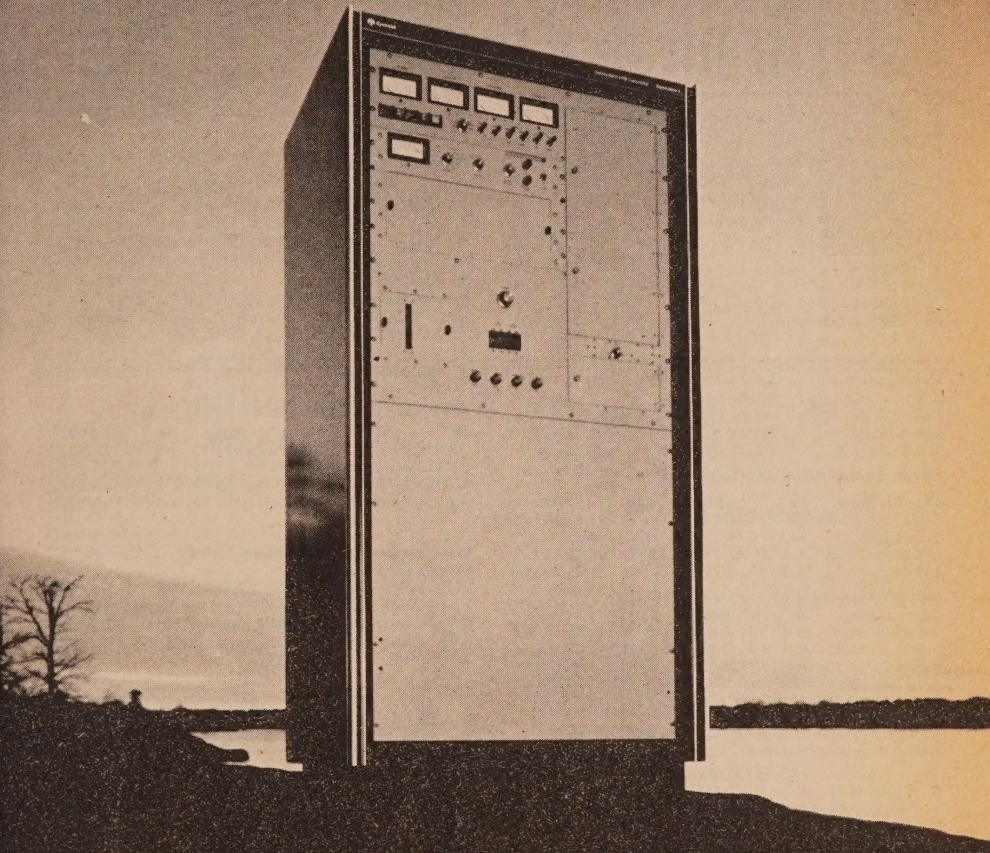

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Act now, while we're still able to hold our current pricing. Contact your local Collins Broadcast salesman. Or Broadcast Marketing, Collins Radio Group, Rockwell International, Dallas, Texas 75207. Phone 214-690-5574 or 214-690-5219.

Rockwell International

WORLD TELEVISION

CHARACTERISTICS OF TELEVISION SYSTEMS

(As indicated in C.C.I.R. Reports 308-1/2, Xth and XIIth Plenary Assembleys, Geneva 1963 and New Delhi 1970).

System	Number of lines	Channel width MHz	Vision bandwidth MHz	Vision/ sound separation MHz	Vestigial side-band MHz	Vision modulation	Sound modulation
A	405	5	3	−3.5	0.75	Pos	AM
B	625	7	5	+5.5	0.75	Nég	FM
C	625	7	5	+5.5	0.75	Pos	AM
D	625	8	6	+6.5	0.75	Nég	FM
E	819	14	10	+11.15	2	Pos	AM
F	819	7	5	+5.5	0.75	Pos	AM
G	625	8	5	+5.5	0.75	Nég	FM
H	625	8	5	+5.5	1.25	Nég	FM
I	625	8	5.5	+6	1.25	Nég	FM
K	625	8	6	+6.5	0.75	Nég	FM
K[1]	625	8	6	+6.5	1.25	Nég	FM
L	625	8	6	+6.5	1.25	Pos	AM
M	525	6	4.2	+4.5	0.75	Nég	FM
N	625	6	4.2	+4.5	0.75	Nég	FM

Field frequency: System M 60 cycles, others 50 cycles per second. Picture frequency; System M 30 cycles, others 25 cycles per second. Line frequency: System A 10.125kHz, E & F 20.475k M 15.75kHz; Hz, all other systems 15.625kHz.

United States of America: System M 525 lines.

ch	MHz	ch	MHz	ch	MHz
A-2	55.25/59.75	A-6	83.25/87.75	A-10	193.25/197.75
A-3	61.25/65.75	A-7	175.25/179.75	A-11	199.25/-203.75
A-4	67.25/71.75	A-8	181.25/185.75	A-12	205.25/209.75
A-5	77.25/81.75	A-9	187.25/191.75	A-13	211.25/215.75

United Kingdom. (UK): System A 405 lines.

ch	Mhz	ch	MHz	ch	Mhz
B-1	45.00/41.50	B-6	179.75/176.25	B-11	204.75/201.25
B-2	51.75/48.25	B-7	184.75/181.25	B-12	209.75/206.25
B-3	56.75/53.25	B-8	189.75/186.25	B-13	214.75/211.25
B-4	61.75/58.25	B-9	194.75/191.25	B-14	219.75/216.25
B-5	66.75/63.25	B-10	199.75/196.25		

Ireland: System 1 625 lines and System A 405 lines.
System A: Same channels as United Kingdom. System I:

ch	MHz	ch	MHz	ch	MHz
A	45.75/51.75	D	175.25/181.25	G	199.25/205.25
B	53.75/59.75	E	183.25/189.25	H	207.25/213.25
C	61.75/67.75	F	191.25/197.25	J	215.25/221.25

Continental Europe (excl. France; Monaco, Italy and OIRT members): System B 625 lines. †=chE-2A.

ch	MHz	ch	MHz	ch	MHz
E-2	48.25/53.75	E-5	175.25/180.75	E-9	203.25/208.75
†	49.75/55.25	E-6	182.25/187.75	E-10	210.25/215.75
E-3	55.25/60.75	E-7	189.25/194.75	E-11	217.25/222.75
E-4	62.25/67.75	E-8	196.25/201.75	E-12	224.25/229.75

France, Monaco: System E 819 lines. †=chF-8A.

ch	MHz	ch	MHz	ch	MHz
F-2	52.40/41.25	F-7	177.15/188.30	F-10	199.70/188.55
F-4	65.55/54.40	†	185.25/174.10	F-11	203.45/214.60
F-5	164.00/175.15	F-8	186.55/175.40	F-12	212.85/201.70
F-6	173-40./162.25	F-9	190.30/201.45		

French Overseas Territories: System K'625 lines.

ch	MHz	ch	MHz	ch	MHz
K'4	175.25/181.75	K'6	191.25/197.75	K'8	207.25/221.75
K'5	183.25/189.75	K'7	199.25/205.75	K'9	215.25/221.75

Italy: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
A	53.75/59.25	D	175.25/180.75	G	201.25/206.75
B	62.25/67.75	E	183.75/189.25	H	210.25/215.75
C	82.25/87.75	F	192.25/197.75	H1	217.25/222.75

USSR and OIRT members (R) (exc. German Democratic Republic): System D 625 lines.

ch	MHz	ch	MHz	ch	MHz
R1	49.75/56.25	R5	93.25/99.75	R9	199.25/205.75
R2	59.25/65.75	R6	175.25/181.75	R10	207.25/213.75
R3	77.25/83.75	R7	183.25/189.75	R11	215.25/221.75
R4	85.25/91.75	R8	191.25/197.75	R12	223.25/229.75

Morocco: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
M4	163.25/168.75	M7	187.25/192.75	M9	203.25/208.75
M5	171.25/176.75	M8	195.25/200.75	M10	211.25/216.75
M6	179.25/184.25				

Australia: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
0	46.25/51.75	5	102.25/107.75	8	189.25/194.75
1	57.25/62.75	5A	138.25/143.75	9	196.25/201.75
2	64.25/69.75	6	175.25/180.75	10	209.25/214.75
3	86.25/91.75	7	182.25/187.75	11	216.25/221.75
4	95.25/100.75				

New Zealand (NZ): System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
1	45.25/50.75	4	175.25/180.75	7	196.25/201.75
2	55.25/60.75	5	182.25/187.75	8	203.25/208.75
3	62.25/67.75	6	189.25/194.75	9	210.25/215.75

Japan: System M 525 lines.

ch	MHz	ch	MHz	ch	MHz
J-1	91.25/95.75	J-5	177.25/181.75	J-9	199.25/203.75
J-2	97.25/101.75	J-6	183.25/187.75	J-10	205.25/209.75
J-3	103.25/107.75	J-7	189.25/193.75	J-11	211.25/215.75
J-4	171.25/175.75	J-8	193.25/197.75	J-12	217.25/221.75

Television on VHF/UHF (Band IV/V) Europe & Africa.

VHF/UHF television systems for Band IV/V adopted by the European Broadcasting Conference Stockholm 1961 and by the African Broadcasting Conference, Geneva 1963 are 625-lines systems only. These can be grouped into 5 categories, here called Standards G to I.

Standard	Video Band-width (MHz)	Picture/ Sound Separation (MHz)	Vestigial Sideband (MHz)	Picture modulation	Sound modulation	Frequency of chromi-nance subcarrier (MHz)	Power ratio picture/ sound
G	5	5.5	0.75	Neg	FM	4.43	5:1
H	5	5.5	1.25	Neg	FM	4.43	5:1
I	5.5	6	1.25	Neg	FM	4.43	5:1
K	6	6.5	0.75	Neg	FM	4.43	5:1
L	6	6.5	1.25	Pos	AM	4.43	8:1

ch	Vision Mc	ch	Vision Mc	ch	Vision Mc	ch	Vision Mc
21	471.25	34	575.25	46	671.25	58	767.25
22	479.25	35	583.25	47	679.25	59	775.25
23	487.25	36	591.25	48	687.25	60	783.25
24	495.25	37	599.25	49	695.25	61	791.25
25	503.25	38	607.25	50	703.25	62	799.25
26	511.25	39	615.25	51	711.25	63	807.25
27	519.25	40	623.25	52	719.25	64	815.25
28	527.25	41	631.25	53	727.25	65	823.25
29	535.25	42	639.25	54	735.25	66	831.25
30	543.25	43	647.25	55	743.25	67	839.25
31	551.25	44	655.25	56	751.25	68	847.25
32	559.25	45	663.25	57	759.25	69	855.25
33	567.25						

The sound carrier frequency for each channel can be determined by adding the appropriate figure to the vision carrier frequency given above (5.5Mc for systems G, H; 6Mc for system I and 6.5Mc for systems K, L). In We. Germany ch38 is reserved for aero-navigation.

UHF Channels: USA.

ch	MHz
A-14	471.25/475.75
A-15	477.25/481.75
A-16	483.25/487.75
A-17	489.25/493.75
A-18	495.25/499.75
A-19	501.25/505.75
A-20	507.25/511.75
A-21	513.25/517.75
A-22	519.25/523.75
A-23	525.25/529.75
A-24	531.25/535.75
A-25	537.25/541.75
A-26	543.25/547.75
A-27	549.25/553.75
A-28	555.25/559.75
A-29	561.25/565.75
A-30	567.25/571.75
A-31	573.25/577.75
A-32	579.25/583.75
A-33	585.25/589.75
A-34	591.25/595.75
A-35	597.25/601.75
A-36	603.25/607.75
A-37	609.25/613.75
A-38	615.25/619.75
A-39	621.25/625.75
A-40	627.25/631.75
A-41	633.25/637.75
A-42	639.25/643.75
A-43	645.25/649.75
A-44	651.25/655.75
A-45	657.25/661.75
A-46	663.25/667.75
A-47	669.25/673.75
A-48	678.25/679.75
A-49	681.25/685.75
A-50	687.25/691.75
A-51	693.25/697.75
A-52	699.25/703.75
A-53	705.25/709.75
A-54	711.25/715.75
A-55	717.25/721.75
A-56	723.25/727.75
A-57	729.25/733.75
A-58	735.25/739.75
A-59	741.25/745.75
A-60	747.35/751.75
A-61	753.25/757.75
A-62	759.25/763.75
A-63	765.25/769.75
A-64	771.25/775.75
A-65	777.25/781.75
A-66	783.25/787.75
A-67	789.25/793.75
A-68	795.25/799.75
A-69	801.25/805.75
A-70	807.25/811.75
A-71	813.25/817.75
A-72	819.25/823.75
A-73	825.25/829.75
A-74	831.25/835.75
A-75	837.25/841.75
A-76	843.25/847.75
A-77	849.25/853.75
A-78	855.25/859.75
A-79	861.25/865.75
A-80	867.25/871.75
A-81	873.25/877.75
A-82	879.25/883.75
A-83	888.25/889.75

UHF Channels: Japan.

ch	MHz
33	591.25/595.75
34	597.25/601.75
35	603.25/607.75
36	609.25/613.75
37	615.25/619.75
38	621.25/625.75
39	627.25/631.75
40	633.25/637.75
41	639.25/643.75
42	645.25/649.75
43	651.25/655.75
44	657.25/661.75
45	663.25/667.75
46	669.25/673.75
47	675.25/679.75
48	681.25/685.75
49	687.25/691.75
50	693.25/697.75
51	699.25/703.75
52	705.25/709.75
53	711.25/715.75
54	717.25/721.75
55	723.25/727.75
56	729.25/733.75
57	735.25/739.75
58	741.25/745.75
59	747.25/751.75
60	753.25/757.75
61	759.25/763.75
62	765.25/769.75

EUROPE

ALBANIA

RADIODIFFUSION TELEVISION ALBANAISE

Addr: Rue Ismail Quemal, Tirana.
L.P: see radio.
Station (System B): chC 0.05kW.
TV-sets: 4.000 – New information not received.

AUSTRIA

ÖESTERREICHISCHER RUNDFUNK

Addr: ORF-Zentrum Wien, A-1136 Wien, Würzburggasse 30.
L.P: Dir.Gen: Dr. Otto Oberhammer. Dir. of TV 1: Gerhard Weis. Dir. of TV 2: Franz Kreuser. Techn.Dir: Dipl.Ing. Norbert Wassiczek.
Stations (System B ch1-12, System G ch21-68) Pol: H.

1st Prgr	ch	kW	1st Prgr	ch	kW
Jauerling 1	2	60/12	Hauser Kaibling 1	11	10/2
Patscherkofel 1	4	60/12	Sonnwend-stein 3	28	6.5/1.3
Kahlenberg 1	5	100/20	Gleichenberg 1	29	5/1
Pfänder 1	5	100/20	Sonntagberg 1	33	4/0.8
Lichtenberg 1	6	100/20	Wien 1(exp)	34	50/10
Schöckl 1	7	100/20	Moosalm 1	45	5/1
Wachberg 1	7	5/1	Galgenberg 1	51	10/2
Gaisberg 1	8	100/20			
Mugel 1	9	20/4			
Klagenfurt 1	10	160/32			
Sonnwend-stein 1	10	10/2			

2nd Prgr	ch	kW	2nd Prgr	ch	kW
Jauerling 2	21	800/160	Gleichenberg 2	39	5/1
Katrin 2	22	20/4	Sonntagberg 2	39	4/0.8
Sonnwend-stein 2	22	65/13	H. Kaibling 2	40	80/16
Patscherkofel 2	23	800/160	Mugel 2	41	200/40
Schöckl 2	23	800/160	Rauchkofel 2	41	15/3
Klagenfurt 2	24	1250/250	Moosalm 2	42	5/1
Kahlenberg 2	24	1000/200	Lichtenberg 2	43	800/160
Kitzbüheler Horn 2	24	50/10	Galgenberg 2	43	10/2
Pfänder 2	24	600/120	Hirschenstein 2	43	55/11
Sonnenberg 2	24	5/1	Kulmeralpe 2	47	10/2
Koralpe 2	28	20/4	Schlatt 2	50	5/1
Gaisberg 2	32	800/160	Lippekogel 2	51	5/1
Grabberg 2	32	4/0.8	Scharoling	51	4/0.8
Dünserberg 2	33	30/6	Spittal Drau 2	54	20/4
			Wachberg 2	58	100/20
			Grünberg 2	59	10/2
			+510 low power sts		

D.Prgr: W 1730-2300(Sun/Wed/Sat 1600-2400), Wed and Fri 1000-1200(for shift workers); Fri 0900-1000 and Thurs 1000-1130 for schools. **FI:** By licence payments and adv.
Colour: Using PAL system.
TV-sets: 1.905.288 – **ALF:** öSch. 1140.

AZORES (Portuguese)

RADIOTELEVISÃO PORTUGUESA (RTP)

Addr: Ponta Delgada, S. Miguel.
Stations: Pico da Barrosa chE7 150/30 kW, Santa Barbara chE9 100/20 kW + 5 low power repeaters.
D. Prgrs: Operates since August 1975.

AFRTS (US Air Force)

ADDR: Detachment 9, 7122nd Support Squadron, APO New York, N.Y. 09406.
Station: Lajes Field chA5 0.1kW.
TV-sets: 1.000.

BELGIUM

RADIODIFFUSION-TELEVISION BELGE (RTB)

French language network

Public sce. Grants by French language Cultural Council.
Addr: Cité de la Radio-Television, B-1040 Brussels. **Te:** 735 90 60. **Cable:** RTB-TV.
L.P: Prgr.Dir: A. Massinger.
Stations (System C ch1-12/System H ch21-68).

	chE	kW	Pol
Ougrée	3	100/25	H
Wavre	8	100/25	H
Anlier	11	10/2.5	H
Wavre	28	1000/100	H
Ougrée	42	1000/100	H
Rivière	52	200/20	H
Froidmont	57	20/2	V
Anlier	60	200/20	H
Anderlues	61	200/20	H

+9 satellites.

Reg. prod. centres: Charleroi, Liège.

BELGISCHE RADIO EN TELEVISIE (BRT)

Dutch language network

Public sce. Grants by Parliament through Dutch language Cultural Council.
Addr: Omroepcentrum, B-1040 Brussels. **Te:** 736 10 10.

Cable: BRT-TV.
L.P: Prgr.Dir: N. Bal.
Stations (System C&H).

	chE	kW	Pol		chE	kW	Pol
Aalter	2	100/25	H	Genk	44	200/20	H
Wavre	10	100/25	H	Oostvleteren	49	20/2	V
Wavre	25	1000/100	H	Schoten	62	200/20	H
Egem	43	1000/100	H	+3 satellites.			

Colour: PAL system used.
TV-sets: 2.650.000(incl. 450.000 colour sets) – **ALF:** Black and White: Bfrs. 1.727,-; Colour: Bfrs. 2.697,-; Combined: B&W+radio: 1.974,-; Colour+radio: 2.944,-.

BULGARIA

BULGARIAN TELEVISION (Gov.)

Addr: Todor Strashimirov 2, Sofia. **Te:** 4687. **Cable:** TV-Bulgar. **Telex:** 22581.
L.P: First Vice-Pres: I. Slavkov.
Stations (System D, Pol=H)

	chR	kW		chR	kW
Bourgas	7	50/10	Zelena Glava	9	5/1
Sofia	7	5/1	Kustendil	10	50/10
Kardjali	9	50/10	Botev	11	250/50
Strummi	9	50/10	Tolboukin	12	5/1
Varna	9	5/1	+70 low power repeaters.		

D.Prgr: 0800-1100, 1600-2100; Sat/Sun 0800-2200.
Colour TV: 10 hrs weekly using SECAM system.
TV-sets: 1.500.000 – **ALF:** Leva 12,-.

CZECHOSLOVAKIA

CESKOSLOVENSKA TELEVIZE

Addr: Ceskoslovenská televize, nám M. Gorkédo 29, Praha 1. **Te:** 221247. **Cable:** Televise. **Telex:** 0400.
Stations (System D):

1st Prgr.	ch	kW	Pol.	1st Prgr.	ch	kW	Pol.
Praha	1	150/60	H	Praha 2	7	100/20	H
Ostrava	1	100/40	H	Liberec	8	35/14	V
C. Budejovice	2	100/40	H	Brno	9	150/60	H
Bratislava	2	150/60	H	Plzen	10	100/40	H
Poprad	5	150/60	V	Jihlava	11	35/14	H
Kosice	6	100/40	V	Zilina	11	100/40	V
B. Bystrica	7	100/40	H	UstinadLabem	12	100/40	V

D.Prgr. 1st Prgr: Mon 1200-2100; Tues/Wed/Fri 0630-1000, 1300-2200 (Wed 2100); Sat 0600-2200: Sun 0600-2100.
2nd Prgr. – Pol: H (Audio Power 1/5 of vision power).

	ch	kW		ch	kW
M. Kamen	21	100	B. Bystrica	32	600
Rakovník	21	100	Brno-mesto	35	100
Gottwaldov	22	100	Susice	35	100
Klatovy	22	100	Cheb	36	100
Praha (mesto)	24	100	Jáchymov	38	300
Kosice	25	600	C. Budejovice	39	600
Bratislava	27	1000	+ 575 low power satellites.		

2nd Prgr: D.exc. Tues 1500-2000(Sat 2100).
Colour TV: Experimental tr's (SECAM system).
TV-sets: 3.500.000 – **ALF:** Czech Crowns 300,-.

DENMARK

RADIO DENMARK (Gov.)

Addr: Danmarks Radio, TV-Byen, DK 2860 Søborg. **Te:** (01)671233. **Cable:** Danradio. **Telex:** 2695.
L.P: Dir.Prgr: Hans Jørgen Jensen. Head, Entertainment: Jørgen Ifversen. Head, Actualities Dept: vacant. Head, Cult.Dep: Werner Svendsen. Head Drama: B. Lense-Møller. For other personnel: see radio.
Stations (System B): Pol H exc. those marked *) V.

Location	ch	kW/W	Location	ch	kW/W
Funen	3	10/1	Middelfart*	5	50/5W
Copenhagen	4	50/5	Nykøbing S.*	5	50/5W
Ålborg	5	50/5	So. West		
Bornholm	5	10/1	Jutland*	5	50/0.5
Vejle	5	50/5W	Kolding	9	100/10W
Horsens*	6	50/5W	Kollund*	9	100/10W
Randers*	6	50/5W	Esbjerg*	9	50/5W
Ringkøbing*	6	50/5W	Svendborg*	9	50/5W
Silkeborg*	6	50/5W	We. Jtland	10	60/10
So. Sealand	6	60/6	Sønderborg	10	50/5W
Hobro*	7	50/5W	Fredericia*	11	50/5W
So. Jutland	7	60/6	Skagen*	11	50/5W
Saeby*	7	5/0.5W	Grena*	11	50/5W
Århus	8	60/6	Hirtshals*	11	50/5W
Frederikshavn*	8	50/5W	Varde*	11	50/5W
Thisted*	8	50/5W			

D.Prgr: Mon-Fri: during daytime school-& children prgrs: Sat/Sun: repeats or sports prgrs during afternoon hours. D 1830-2200(approx) general prgrs.
Colour TV: 31 hrs per week using PAL system.
TV-sets: 1.636.834 (incl. 512.149 colour sets) – **ALF:** Kr. 398,– (+Kr. 266,– extra for colour).

FINLAND

OY YLEISRADIO (Gov.)

Addr: Prgr. I: Pasila, 00240 Helsinki 24. **Te:** 418811. **Cable:** Yletv. **Telex:** 12849. Prgr. II: 33270 Tampere 27, Tohlopinranta 12. **Te:** 455455. **Telex:** 22-176.
L.P: Dir.TV-I: S. Kiuru. Dir.TV-II: E. Härkönen. For other leaders: See radio.
(Studios: 13 of which 7 are in Helsinki).
Stations (System B ch1-12, System G ch21-68):

Prgr. I	ch	kW	Pol	Prgr. I	ch	kW	Pol
Taivalkoski	2	15	V	Koli	8	20	H
Tervola	3	20	H	Tampere	8	80	H
Ruka	4	0.2	V	Kerimäki	9	10	H
Vuokatti	4	40	H	Lahti	9	80	H
Lapua	5	80	H	Rovaniemi	9	0.7	V
Pyhätunturi	5	60	H	Ylivieska	9	60	H
Sippola	5	20	H	Joutseno	10	10	H
Ahvenanmaa	5	10	H	Pihtipudas	10	60	H
Espoo	6	180	H	Ranua	10	1	H
Iisalmi	6	0.2	H	Tammela	10	8	H
Mikkeli	6	10	H	Inari	10	3	H
Pyhävuori	6	20	H	Eurajoki	11	20	H
Kokkola	7	0.1	H	Jyväskylä	11	10	H
Kuopio	7	80	H	Vaasa	11	0.2	H
Oulu	7	60	V	Ylläs	11	60	H
Turku	7	60	H	+34 low power repeaters.			

D.Prgr: Mon-Fri 1530-2100, Sat 1400-2200, Sun 1300-2100.

Prgr. II	ch	kW	Pol	Prgr. II	ch	kW	Pol
Tampere	2	10	V	Eurajoki	33	600	H
Espoo	8	60	H	Kuopio	36	600	H
Turku	9	30	V	Mikkeli	38	600	H
Vaasa	9	1	H	Lahti	40	600	H
Pyhävuori	10	20	H	Sippola	49	600	H
Oulu	11	10	V	Koli	51	600	H
Kemi	22	15	H	Kerimäki	55	600	H
Lapua	24	1000	H	Vuokatti	56	600	H
Jyväskylä	25	600	H	+15 low power repeaters.			
Joutseno	32	600	H				

D.Prgr: 1700-2030(Sat also 1300-1600).
Fi: By licence fee and adv.
ALF: TV-I: Fmk 180,,-; TV-I and II: Fmk. 220,-; Additional fee for Colour set: Fmk. 160(to be abolished from1/9/77 when combined fee for colour and black/white sets will be Fmk. 380(for TV-I) or Fmk. 430(for both TV-I and TV-II).

OY MAINOS-TV-REKLAM AB (MTV) (Comm.)

Addr: Pasilankatu 44, 00240 Helsinki 24. **Te:** 413300. **Cable:** Comtele. **Telex:** 121544.
L.P: Pres: P. Hanski. Vice Pres: J. Paavela. Prgr.Dir: Leo Meller. Techn.Dir: H. Marsalo. For.Rel.Mgr: R. Lahti.
Prgr's: Transmits prgr's on Yleisradio's both channels. Daily on ch1, weekly about 14h 30 min. On ch2 on Tues, Thurs and every second Sat, weekly about 3h 30 min.

FRANCE

TELEVISION FRANÇAISE 1 (TF1)

Addr: Société Nationale TF1, 15 rue Cognacq Jay, F-75340 Paris Cedex 07. **Te:** 555 35 35.

L.P: Pres. & Dir.Gen: J. Cazeneuve. Dir.Gen: J.L. Guilland. chF (ch1-12 system E; ch21-49 system L).

Principal stations: Audio powers ¼ of vision powers indicated.

Location	ch	kW (ERP)	Pol	Location	ch	kW (ERP)	Pol
Bastia	2	10	V	St. Flour	9	1	H
Caen	2	50	H	Albertville	10	1	V
Limoges	2	200	H	Bordeaux	10	50	H
Troyes	2	250	H	Dijon	10	12	V
Ajaccio	4	10	H	Grenoble	10	1	H
Besançon	4	30	V	Porto Vecchio	10	1	H
Boulogne	4	0.4	H	Rouen	10	50	H
Carcassonne	4	100	V	Toulouse	10	0.5	H
Hyeres	4	5	V	Amiens	11	200	V
Nantes	4	300	V	Aurillac	11	5	V
Serres	4	20	H	Menton	11	1	V
Gap	5	1	H	Nice	11	1	V
Lyon F	5	5	H	Toulon	11	0.5	H
Reims	5	50	V	Cherbourg	12	16	H
Rennes	5	450	H	Epinal	12	0.4	V
Strasbourg	5	20	H	Le Mans	12	100	V
Toulouse Pic.	5	100	H	Longwy	12	1	V
Chamberry	6	1	H	Lyon	12	200	H
Chamonix	6	0.1	H	Perpignan	12	5	H
Clermont Fd.	6	150	V	Vannes	12	10	H
Corte	6	5	H	Rouen	23	200	H
Metz	6	200	H	Paris	25	200	H
Montpellier	6	5	H	Lille	27	1000	H
St. Raphael	6	10	H	Forbach	28	5	H
Gex	7	25	V	Avignon	32	5	H
Le Havre	7	1	H	Chartres	32	5	H
Niort	7	300	V	Maubeuge	39	5	H
Nancy	7	0.1	V	Lesparre	39	5	H
Lille	8A	200	H	Paris Est	40	5	H
Mezieres	8A	5	V	Marseille P.	40	5	H
Paris	8A	180	H	Paris Nord	45	5	H
Brest	8	150	H	Le Havre	46	200	H
Gueret	8	1	H	Pignans	46	2.5	H
Marseille	8	200	H	Paris Sud	49	5	H
Mulhouse	8	200	H	Montpellier	63	2.5	H
St. Etienne	8	1	H	Ales	65	5	H
Bayonne	9	5	V	Neufchatel	65	2.5	H
Bourges	9	200	H	Mende	68	5	H
Brive	9	1	H				

+low power relay sts not mentioned.

D.Prgrs: times not received.

ANTENNE 2(A2)

Addr: Société Nationale Antenne 2, 158 rue de l'Université, F-75341 Paris Cedex 07. **Te:** 555-39-51.

L.P: Pres.Dir.Gen: M. Jullian. Dir. of Prgrs: J. Chancel. (System L): Pol=H. Audio powers ⅛ of vision powers indicated.

Stations	chF	kW (ERP)	Stations	chF	kW (ERP)
Ajaccio	21	500	Bourges	26	1000
Ales	21	100	Chambery	26	100
Brest	21	1000	Le Mans	27	1000
Gex	21	1000	Chamonix	28	50
Lille	21	1000	Clermont-Fd.	28	1000
Mulhouse	21	1000	St. Raphael	28	1000
Toulouse	21	500	Nancy	29	500
Gap	21	8	Nantes	29	1000
Forbach	22	20	Brive	29	8
Niort	22	1000	St. Etienne	30	10
Paris	22	100	Auxerre	31	800
Bescançon	23	250	Mende	31	80
Marseille	23	1000	Rouen	33	500
Mezieres	23	500	Le Creusot	33	10
Troyes	24	1000	Boulogne	34	100
Caen	25	1000	Bergerac	34	250
Perpignan	25	10	Mertz	34	1000
Porto-Vecchio	34	25	Chartres	50	250
Vittel	35	80	Cluses	50	8
Orleans	39	100	Autun	51	500
Toulouse	39	10	Alençon	51	100
Paris Nord	39	7	St. Martin	51	3
Dunkerque	39	200	Mortain	52	10
Albertville	39	5	Paris-Sud	52	5
Lyon	40	1000	Serres	53	2
Argenton	40	100	Sarrebourg	53	250
Besançon	41	500	Aurillac	54	350
Maubeuge	42	5	Morteau	54	20
Le Havre	43	100	Macon	55	5
Pignans	43	2.5	Tarascon	55	5
Angers	44	20	Strasbourg	56	1000
Utelle	44	10	Vannes	56	500
Millau	44	20	Abbeville	57	250
Rennes	45	1000	Bordeaux	57	1000
Avignon	45	125	Le Puy	57	100
Lespartre	45	5	Laval	57	80
Ussel	45	80	Bayonne	58	500
Paris Est	46	5	Carcassonne	58	1000
Reims	46	1000	Lyon	58	10
Marseille	46	4	Mantes	58	80
Amiens	47	500	Nice	58	10
Bastia	47	500	Privas	58	50
Longwy	47	100	Montmelian	58	3
Hirson	48	500	Guerer	58	80
Toulon	48	100	Cherbourg	59	100
Wissembourg	48	50	Hyeres	59	35
Bar-le-Duc	48	80	Tours	59	200
Neufchatel	48	80	Verdun	59	200
St. Flour	49	6	Epinal	60	100
Pathenay	49	80	Corte	61	100
Grenoble	50	50	Champagnole	61	80
Limoges	50	1000	Dijon	62	1000
Montpellier	50	1000	Sens	63	100
Menton	50	50	Aurillac	65	500

+low powered relay sts not mentioned.

D.Prgr: times not received.

Colour transmissions (SECAM system) are aired by the trs of the 2nd Netw.

FRANCE REGIONS 3 (FR3)

Addr: Société Nationale FR3, 116 Ave. du Pres. Kennedy, F-75016 Paris. **Te:** 224-2054.

L.P: see radio section (FR3).

Stations	chF	kW (ERP)	Stations	chF	kW (ERP)
Le Mans	21	1000	Reims	40	1000
Chamonix	22	20	Le Havre	40	400
Perpignan	22	20	Pignans	40	5
St. Raphael	22	400	Utelle	41	5
Ales	24	20	Angers	41	20
Brest	24	1000	Toulouse	42	20
Lille	24	1000	Rennes	42	1000
Gap	24	20	Lesparre	42	5
Mulhouse	24	1000	Paris Est	43	1
Gex	24	400	Strasbourg	43	1000
Brest	24	1000	Marseille	43	5
Toulouse	24	500	Lyon	43	1000
Forbach	25	20	Amiens	44	500
Clermont-Fd.	25	500	Besançon	44	400
Niort	25	200	Longwy	44	80
Besançon M.	26	400	Dunkerque	45	80
Brive	26	1	Maubeuge	45	1
Nancy	26	500	Orleans	45	80
Nantes	26	1000	Tarascon	49	5
Meziéres	26	400	Sarrebourg	50	80
Marseille	26	1000	Wissembourg	51	80
Rouen	26	400	Limoges	53	1000
Paris	28	1000	Grenoble	53	80
Caen	28	1000	Montpellier	53	1000
Bourges	29	1000	Toulon	54	80
Metz	31	1000	Bar-le-Duc	54	80
Vittel	32	80	Mortain	55	1
St. Etienne	33	20	St. Flour	55	5
Auxerre	34	400	Menton	56	80
Boulogne	37	80	Paris Nord	56	5
Avignon	39	500	Serres	56	1

Stations	chF	kW (ERP)	Stations	chF	kW (ERP)
Abbeville	60	400	Aurillac	62	20
Bordeaux	60	1000	Cherbourg	62	80
Laval	60	80	Paris Sud	62	5
Le Puy	60	20	Hyeres	62	80
Carcassone	61	1000	Tours	62	400
Privas	61	20	Epinal	63	80
Nice	61	20	Lyon	64	80
Bayonne	61	400	Dijon	65	400
Mantes	61	80			

D.Prgr (colour): times not received.
TV-sets: 14.500.000 (incl. approx. 2.250.000 colour sets) – **ALF:** Frcs. 155,- (colour 235,-).

GERMAN FEDERAL REPUBLIC

ARD (Arbeitsgemeinschaft der öffentlichrechtlichen Rundfunkanstalten der Bundesrepublik Deutschland)

German Television Prgr.
Direction: 8 München 40, Leopoldstrasse 10. **Te:** 38061. **Telex:** (05)22480.
L.P: Prgr.Dir. German Television: Hans Abich. Press Dept: Margret Trapmann.
A common prgr. is being broadc. throughout Germany under the title "Deutsches Fernsehen". Each of the org's participates in the production of this prgr. In addition reg. broadc's are transmitted.
All st's broadcast **a third TV-prgr.**

Community Television Prgr (Deutsches Fernsehen): Mon-Thurs 1515-1700, 1900-closing; Fri 1450-1700, 1900-closing; Sat 1300-1730, 1900-closing; Sun 0830-closing. (Closing times appr. between 2200 and 2300).

Third TV Prgr: Bayerischer Rundfunk: Mon-Tues 1610-closing, Wed 1555-closing, Thurs-Fri 1610-closing, Sat 1525-closing, Sun 1610-closing; Hessischer Rundfunk: Mon-Wed 1640-closing, Thurs-Fri 1700-closing, Sat 1615-closing, Sun 1630-closing; Norddeutscher Rundfunk/Radio Bremen/Sender Freies Berlin: Mon-Fri 1530-closing, Sat 1430-closing, Sun 1400-closing; Westdeutscher Rundfunk: Mon-Fri 1600-closing, Sat 1530-closing, Sun 1630-closing; Saarländischer Rundfunk/Süddeutscher Rundfunk/Südwestfunk: Mon-Fri 1625-closing, Sat 1530-closing, Sun 1630-closing. (Closing time approx. between 2100 and 2300, varying from day to day).
TV-sets: 19.226.029 – **ALF:** DM 126,-.

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

Addr: Bayerischer Rundfunk 8 München 2, Rundfunkplatz 1. **Studios:** 8 München-Freimann and 8048 Unterföhring.
L.P: Intendant: R. Vöth. Dir.TV: Dr. H. Oeller. Dir.Adm: O. Maier. Dir.Tec: F. Müller-Römer.

Stations	chE	kW (ERP)	Stations	chE	kW (ERP)
Grünten	2	100H	Würzburg	10	5H
Kreuzberg	3	100H	Hohe Linie	53	75H
Ochsenkopf	4	100V	Hohenpeissenberg	25	10H
Dillberg	6	100H	Hoher Bogen	55	200H
Brotjacklriegel	7	100H	Büttelberg	55	400H
Wendelstein	10	100H	Pfaffenberg	59	100H
			Hühnerberg	60	400H

+161 low power relay st's.
Test tr's: 0900-1500; Sat 1000-1500.
Third Prgr. (Pol. H): W 1800-2130.

Stations	chE	kW (ERP)	Stations	chE	kW (ERP)
Deggendorf	40	430	Högl	52	40
Coburg	41	250	Bayreuth	54	100
Pfaffenhofen	41	500	Schnaitsee	54	500
Regensburg	42	870	Bamberg	56	90
Amberg	43	500	München	56	500
Augsburg	44	500	Hof	57	500
Würzburg	45	500	Pfarrkirchen	57	250
Grünten	46	470	Landshut	58	55
Hesselberg	47	400	Hoher Bogen	59	240
Rhön	49	500	Nürnberg	59	440
Spessart	51	220	Passau	60	40

+285 low power repeaters.

PUB: "Pressedienst-Studienprogram" (weekly).
FI: By licence payments.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

Addr: 6000 Frankfurt (Main) 1, Postfach 3111, Bertramstrasse 8.
L.P: Intendant: W. Hess. Dir.Prgr(TV): H.O. Grünefeldt. Chief Editor, Pol. and N: M. Stoffregen-Büller. Play: Dr. H. Prescher. Prod: G. Meyer. Education: Dr. H. Bressler. Entertainment: G. Andreas Pape.

Stations	ch	kW (ERP)	Pol	Stations	ch	kW (ERP)	Pol
Biedenkopf	E2	100/5	Hd	Fulda	E47	10/0.5	Hd
Hardberg	E5	5/0.25	Hd	Habichtswald	E56	50/2.5	H
Meissner	E7	100/5	H	Würzberg	E56	10/0.5	Hd
Feldberg/Ts.	E8	100/5	H	Rimberg	E57	400/20	H

+140 low power repeaters.

D.Prgr: Mon-Thurs 1515-2200, Fri 1450-2300, Sat 1400-2300, Sun 0945-2200 (times are approx.) – **Ad:** W 1700-1820.
Third Prgr: "Hessisches Fernsehprogramm" D 1700-2200 over the following tr's of "Deutsche Bundespost".

Location	chE	kW(ERP)	Location	chE	kW(ERP)
Rimberg	39	400	Angelburg	52	500
Habichtswald	41	100	Feldberg	54	500
Kassel	42	200	Hoher Meissner	55	500
Krehberg	43	100			
Hohes Lohr	45	50			

+154 low power repeaters.

NDR-TELEVISION

Addr: See radio.
L.P: Dir.Prgr: F.W. Räuker. For other personnel: see radio.
First Prgr:

Stations	ch	kW	Pol	Stations	ch	kW	Pol
Steinkimmen	2	100	H	Lingen	41	400	H
Flensburg	4	50	H	Dannenberg	43	250	H
Kiel	5	12	H	Stadthagen	47	100	H
Visselhoevede	7	20	V	Bungsberg	50	260	H
Hannover	8	5	H	Osnabrück	50	250	H
Hamburg	9	100	H	Aurich	53	230	H
Heide	10	25	V	Steinkimmen	55	400	H
Harz	10	100	H				

+93 low power st's.
D.Prgr: Test-tr's: Tues-Sat 0800-0900, 1220-1515 – **Prgr:** W 0900-1220, 1515-1700(Sat 1330-1730, D 1900-2200 (approx.)
Reg Prgr: W 1700(Sat 1730)-1859.

Third Prgr: 1700(Sat/Sun 1500)-2130 (approx.) Common prgr. of Norddeutscher Rundfunk, Radio Bremen and Sender Freies Berlin:
School Television mornings(Mon-Fri), common prgr. of NDR and R. Bremen.

Stations	ch	kW	Pol	Stations	ch	kW	Pol
Lübeck	33	240	H	Torfhaus	53	500	H
Hamburg	40	500	H	Kiel	55	200	H
Cloppenburg	40	47	H	Osnabrück	56	138	H
Aurich	43	400	H	Flensburg	57	250	H
Eiderstedt	44	380	H	Uelzen	58	400	H
Hannover	44	500	H	Göttingen	59	250	H
Höhbeck	45	440	H	Lingen	59	400	H
Schleswig	45	100	H	Niebüll	60	150	H
Eutin	47	280	H	Verden	60	58	H
Cuxhaven	48	330	H				

+120 low power repeaters.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

Addr: Heinrich Hertz Str. 13, D-28 Bremen 33. **Te:** 4271.
L.P: Dir.Gen: Gerhard Schröder, Dir.Prgr's: D. Ertel.
Stations: Bremen chE22 100/10kW, Bremerhaven chE5 20.2kW V – **D.Prgr:** W 1515-1700(Mon-Fri), 1330-1730(Sat), 1900-2330(approx.), Sun: 0930-2230(approx.)
Reg. Prgr: W 1700(Sat 1730)-1900.
Special Prgr: Mon-Fri 0730-1200, 1330-1500.
Third Prgr: Bremen chE42 360/36kW H: – 1800(Sat/Sun 1515)-2100.
FI: By licence payments – **Ad:** (W only): max 20 min.

SAARLANDISCHER RUNDFUNK-FERNSEHEN

Addr: 66 Saarbrücken, Postfach 1050.
L.P: Intendant: Dr. Franz Mai. Dir: Dieter Ibach. Chief Editor: K.H. Reintgen (Stellv. Intendant).
Station: 1st Prgr: Göttelborner Höhe ch2 100/20kW H+24 low power satellites.
D.Prgr: D 1630-2130.
Sudwest 3: Saarbrücken (Winterberg) ch42 430/20kW H+23 low power satellites.
D.Prgr: 1700-2100.

SENDER FREIES BERLIN

Addr: Fernsehen, Masurenalle, 8/14, Berlin 19. **Te:** 3081. **Telex:** 182813. **Cable:** Sender Freies Berlin.
L.P: See radio.
Stations: Berlin chE7 100/10kW H. **D.Prgr:** W 0900-1200, 1515 (or 1450)-1700; Sat 0900-1220, 1330-1730, 1900-2230; Sun 0815-2145.
Reg.Prgrs: Mon-Fri 1400-1515 (or 1430), 1700-1900; Sat 0800-0845, 1220-1315, 1730-1900.
Third Prgr (NDR/RB/SFB): Station: Berlin ch39 500/50kW H: Wed & Fri 0800-0930; Mon-Fri 1030-1230, 1700-2130; Sat 1430-2200; Sun 1500-2130 – **FI:** By licence payments.

SUDDEUTSCHER RUNDFUNK FERNSEHEN (Anstalt des öffentlichen Rechts)

Addr. and **L.P:** See radio.

Stations	ch	kW (ERP)	Stations	ch	kW (ERP)
Heidelberg I	7	100/10V	Langenbrand	21	10/10H
Aalen	8	50/5V	Bad Mergenth.	48	10/1H
Waldenburg	9	100/10H	Heibronn	49	10/1H
Stuttgart	11	100/10H	Heidelberg II	50	500/50H

+158 low power freq. changers.

D.Prgr: W 1500-1700(Sat 1300-1730), 1900-2200(approx); Sun 0900-2200(approx).
Reg. Prgrs. Mon-Fri: 1700-1900, Sat 1730-1900.
"Sudwest 3" (common prgr. of Saarländischer Rundfunk, Süddeutscher Rundfunk and Südwestfunk: 1900-2130(approx) – Mon-Fri 0720-0915 and 1625-1900(school prgrs. and educational); Sat 1430-1900 and Sun 0800-0930 and 1500-1900(courses).

Stns. (Pol H)	ch	kW (ERP)	Stns.	ch	kW (ERP)
Stuttgart	39	234	Saarbrücken	42	430
Ravensburg	40	400	B. Marienberg	44	138
Schnee-Eifel	40	182	Kaiserslautern	44	25
Baden-Baden	41	300	Brandenkopf	45	15
Boppard	41	120	Trier	48	50
Langenburg	42	185	Koblenz	51	85
Heubach	52	135	Ahrweiler	56	210
Hochrhein	52	235	Donaue-schingen	57	33
Heidelberg	53	492	Eberbach	58	195
Teufelskopf	53	50	Freiburg	58	316
Ulm	54	330	Pforzheim	59	250
Haardtkopf	55	400	Donnersberg	60	330
Rottweil	55	300			

SUDWESTFUNK (Anstalt des öffentlichen Rechts)

Addr: Südwestfunk Fernsehen, 7570 Baden-Baden, Hans Bredow-Str. **Te:** 2760. **Cable:** Südwestfunk, Baden-Baden.
L.P: See radio.
Stations: Pol: H.

ch	kW (ERP)		ch	kW (ERP)
Raichberg	4 100	Waldshut	21	1
Trier	5 0.6	Eggberg	22	0.8
Koblenz	6 50	Eifel	23	20
Weinbiet	6 30	Hohe Derst	23	1
Baden-Baden	7 0.32	Haardtkopf	25	200
Freiburg I	7 0.9	Saarburg	29	20
Kaiserslautern	7 0.32	Wannenberg	30	5
Zweibrücken	7 0.04	Grünten	43	500
Feldberg	8 100	Bad Marienberg	47	50
Hornisgrinde	9 80	Brandenkopf	48	2.5
Donnersberg	10 100	Freiburg/Schönberg	51	2
Mainz	11 1	Hohe Möhr	55	4

+220 low power satellites.

D.Prgr: Variable.

WDR FERNSEHEN

Addr: Appellhofplatz 1, 5 Köln. **Te:** 2201. **Cable:** WDR. Studios: 53 Bonn, Dahlmannstr. 14; Düsseldorf, Neusser Strasse 111.
L.P: Dir.TV: W. Höfer.
FIRST TV Prgr: Pol: H.

Stations	chE	kW (ERP)	Stations	chE	kW (ERP)
Bonn	5	0.5/0.5	Aachen-Stolb	24	200/20
Wuppertal	6	0.60/0.6	Nordhelle	30	240/24
Langenberg	9	100/10	Münster-Baumb.	32	500/50
Köln	11	10/1	Kleve	46	100/10
Teutob. Wald	11	100/10			

+240 low power freq. changers.

D.Prgr: Tests: W 0900-1100, 1200-1700(Sat 1300); **Reg. Prgrs:** W 1700(Sat 1730)-1900.
Common Prgr: Sun 0830-2200; Mon-Thurs 1515-1700, 1900-2200(Mon 2300); Fri 1450-1700, 1900-2300; Sat 1255-1730, 1900-2300(approx).

Third Prgr: Mon-Thurs 1700-2330; Fri 1630-2230; Sat 1630-2320; Sun 1700-2320(times are approx).

Stations	chE	kW (ERP)	Stations	chE	kW (ERP)
Hochsauer-land	40	250/25	Bonn	49	85/8.5
Wuppertal	42	85/7.5	Monschau	50	280/28
Münster Baumb.	45	250/25	Dortmund	53	470/47
Bielefeld	46	450/45	Düsseldorf-Witzh	55	450/45
Eggebirge	48	250/25	Minden	57	200/20
Wesel	48	475/47	Aachen	58	450/45
			Lüdenscheid	60	250/25

School-TV: (1st & 3rd Prgr): Mon-Wed: 0720-1045; Thurs-Sat: 0705-1045.

ZWEITES DEUTSCHES FERNSEHEN (Anstalt des öffentlichen Rechts)

(All prgrs. are broadc. simultaneously on the stations listed below and originated at the main studios at Mainz.)
Addr: 6500 Mainz, Postfach 4040. **Te:** 701. **Telex:** 04-187661.
L.P: Dir.Gen: Prof. Dr. K. Holzamer. Dir.Inf: R. Appel. Dir.Adm: R. Sölch. Dir.Tec: R. Kaiser. Head, International Affairs: Hans Kimmel. Film Buyer: H. Blank. Chief of Press Dept: Dr. Fritz Hufen. Purchaser of TV-productions: O.R. Beger.

Stations: chE Pol: H

ch	kW(ERP)		ch	kW(ERP)
Eutin	21	235/20	Minden	26	500/20
Gottingen	21	160/10	Schleswig	26	100/2
Hohbeck	21	330/20	Schnaitsee	26	360/20
Bad Marien-berg	21	186/10	Stuttgart	26	404/20
Monschau	21	300/10	Heidelberg	27	440/20
Munster	21	170/10	Hochsauer land	27	250/10
Regensburg	21	400/20	Pfarrkirchen	27	250/10
Coburg	22	190/10	Uelzen	27	500/20
Donau-eschingen	22	88/2	Boppard	28	180/10
Hohes Lohr	22	35/2	Brandenkopf	28	30/2
Hohen-peissenbg.	22	25/2	Grunten	28	470/20
Kaisers-lautern	22	25/2	Hoher Bogen	28	240/10
Wuppertal	22	100/2	Langenburg	28	165/10
Trier	22	50/2	Dusseldorf	29	500/20
Augsburg	23	310/20	Heubach	29	209/10
Hof	23	500/20	Rhon	29	490/20
Lubeck	23	240/10	Bayreuth	30	100/2
Torfhaus	23	500/20	Eberbach	30	215/10
Angelburg	24	500/20	Hamburg	30	460/20
Bamberg	24	85/2	Passau	30	43/2
Cuxhaven	24	330/10	Schnee-Eifel	30	195/10
Hannover	24	500/20	Baden-Baden	31	330/20
Lingen	24	460/20	Eggebirge	31	250/10
Dortmund	25	500/20	Eiderstedt	31	500/10
Rimberg	25	400/20	Koblenz	31	85/2
Verden	25	66/2	Pfaffenhofen	31	500/20
Wurzburg	25	410/20	Bremen	32	500/20
Bonn	26	70/2	Hesselberg	32	460/10
			Hoher Meissner	32	390/20
			Saarbrucken	32	330/20

	ch	kW(ERP)		ch	kW(ERP)
Ahrweiler	33	200/10	Rottweil	35	300/10
Berlin	33	430/20	Spessart	35	170/10
Bielefeld	33	310/20	Buderich	35	500/20
Deggendorf	33	400/10	Aachen	37	360/10
Freiburg	33	500/20	Amberg	37	460/20
Krehberg	33	100/10	Cloppenburg	37	47/2
Ostfriesland	33	410/20	Donnersberg	37	330/10
Ulm	33	370/10	Ludenscheid	37	200/10
Feldberg/Ts	34	500/20	Ravensburg	37	268/20
Niebull	34	200/2	Flensburg	39	250/10
Nurnberg	34	400/20	Hochrhein	39	225/10
Pforzheim	34	170/10	Landshut	39	56/2
Haardtkopf	35	400/20	Osnabruck	39	250/10
Kassel	35	200/10	Hogl	42	40/2
Kiel	35	250/10	Teufelskopf	46	50/2
Munchen	35	500/20			

+1582 low power frequency changers.

D.Prgr: Common Prgr: W 1630-2300, Sat 1300-2400, Sun 1000-2300. Sport on Sat and Sun afternoons. Closing times are approx. – **FI:** By licence payments.

Colour TV: 65 hrs. per (using PAL system).

ALF: DM 10.50 per month. Covering **all** German radio & TV licence payments (internal splitting between ARD and ZDF).

ARMED FORCES TELEVISION (US Mil.)

Addr: 1) Spangdahlem Air Base, Detachment 1, 7122nd Support Squadron, APO New York, NY 09742; 2) Ramstein Air Base, Detachment 3, 7122nd Support Squadron, APO New York, NY 09012; 3) Detachment 1, 7122nd Support Squadron, APO New York, NY 09611; 4) Wiesbaden Air Base, 7122nd Support Squadron, APO, New York NY 09633.

Stations (Systems B and G with picture/sound separation of 4.5MHz): 1) Spangdahlem (near Bitburg) ch27 8/1.6kW H; 2) Kaiserslautern ch30 8/0.6kW H; 3) Berlin ch29 0.5/0.1kW H; 4) Wiesbaden ch22 2/0.4kW H+68 low power satellites.

GERMAN DEMOCRATIC REP.

FERNSEHEN DER DDR (Gov.)

Addr: Staatliches Komittee für Fernsehen beim Ministerrat der DDR, 1199 Berlin-Adlershof. **Te:** 6310. **Telex:** 0112885. **Cable:** DDR-Fernsehen.

L.P: Dir.Int.Rel: Dr. K. Ottersberg.

Stations (System B)

1st Prgr: Helpterberg ch3 30/6kW V, Cottbus ch4 70/14kW H, Berlin ch5 100/20kW H, Inselberg ch5 100/20 kW H, Brocken ch6 100/20kW H, Karl-Marx-Stadt ch8 100/20kW H, Marlow ch8 100/20kW H, Leipzig ch9 100/20kW V, Dresden ch10 100/20kW V, Schwerin ch11 100/20kW H, Löbau ch27 500/100kW H(low power repeaters omitted).

D.Prgr: Mon-Fri 0815(Tues/Wed 0635)-1200, 1300-2200; Sat 0715-2300.

2nd Prgr. (System G): Leipzig ch22 1000kW H, Marlow ch24 500kW V, Berlin ch27 500kW H, Schwerin ch29 1000kW H, Dresden 1000kW ch29 H, Dequede ch31 500kW H, Inselsberg ch31 500kW H, Karl-Marx-Stadt ch32 500kW H, Sonneberg ch33 500kW H, Brocken ch34 1000kW H.

D.Prgr: 1845-2200(Fri/Sat/Sun in colour using SECAM III b System) approx. 9 hrs per week – Studios: 13.

TV-sets: 5.180.000(incl. 135.000 colour sets) – **ALF:** GM 84.00(for radio+TV), GM 120,-(for radio+TV+II).

GIBRALTAR

GBC TELEVISION

Addr: TV House, Wellington Front, Gibraltar, Studios: TV House, Queensway, Gibraltar. **Te:** 70671. **Cable:** Broadcasts.

L.P: See radio.

Station (System B): chE6 0.2/0.04kW H (+repeater chE11).

D.Prgr: 1930-2400. **TV-sets:** 6.200 – **ALF:** £6.00.

Remind your friend about the new edition of the WRTH!

He'll be grateful.

GREAT BRITAIN

BRITISH BROADCASTING CORPORATION

Addr: Television Centre, London, W12.

L.P: Man.Dir: I. Trethowan. Dir.Prgr: A.D.G. Milne. Contr. BBC-1: G.B. Cowgill. Contr. BBC-2: A.E. Singer. Contr.Prgr.Sce's: P.G.A. Ramsay. Chief Eng: C.R. Longman.

BBC-1 (405 lines VHF)

Stations	ch	kW	Pol	Stations	ch	kW	Pol
Crystal Palace	1	200	V	Sutton Coldfield	4	100	V
Ashkirk	1	18*	V	Sandale	4	30*	H
Divis	1	35*	H	Melvaig	4	25*	V
Redruth	1	10*	H	Meldrum	4	17*	H
Thrumster	1	7*	V	Manningtree	4	5*	H
Llanddona	1	6*	V	Haverford-west	4	10*	H
Llandrindod Wells	1	1.5	H	Les Platons	4	1	H
Holme Moss	2	100	V	Oban	4	3*	V
Rosemarkie	2	20*	H	Wenvoe	5	100	V
No. Hessary Tor	2	15*	V	Orkney	5	15*	V
Swingate	2	1.5*	V	Pontop Pike	5	17*	H
Londonderry	2	1.5*	H	Forfar	5	5*	V
Kirk o'Shotts	3	100	V	Br. Mountain	5	7*	V
Rowridge	3	100*	V	Douglas	5	3*	V
Tacolneston	3	45*	H	Fort William	5	1.5	H
Skriaig	3	12*	H	Peterborough	5	1	H
Bressay	3	6*	V	Moel-y-parc	6	20*	V
Morecambe Bay	3	5*	H	Sandale	6	70*	H
Baen-plwyf	3	3*	H	Bedford	10	3*	H
				Winter Hill	12	125*	V
				Belmont	13	20	V
				Wenvoe	18	200*	V

*) directional aerial

+69 low power st's.

D.Prgr: Trade tests: from 0900 until beginning of prgrs.

Prgrs: Mon-Fri 0935-1400 and 1400-1500 (schools), 1600-2330; Sat 0900-0100; Sun 0900-2330. Times are approx.

BBC-1 (625 lines UHF) colour (System I)

Stations	ch	kW	Pol	Stations	ch	kW	Pol
Ridge Hill	22	100	H	Black Hill	40	500	H
Belmont	22	500	H	Bluebell Hill	40	30	H
Durris	22	500	H	Emley Moor	44	870	H
Caradon Hill	22	500	H	Wenvoe	44	500	H
Wrekin	26	100	H	Presely	46	100	H
Crystal Palace	26	1000	H	Sutton Coldfield	46	1000	H
Caldbeck	30	500	H	Heathfield	49	100	H
Blaenplwyf	31	100	H	Dover	50	100*	H
Craigkelly	31	100	H	Redruth	51	100	H
Divis	31	500	H	Sudbury	51	250	H
Rowridge	31	500*	H	Moel-y-Parc	52	100	H
Rumster Forest	31	100	H	Huntshaw Cross	55	100	H
Sandy Heath	31	1000	H	Selkirk	55	50	H
Bilsdale West Moor	33	500	H	Limavady	55	100	H
Darvel	33	100	H	Winter Hill	55	500	H
Eitshal	33	100	H	Angus	57	100	H
Knock More	33	100	H	Beacon Hill	57	100	H
Stockland	33	250	H	Carmel	57	100	H
Hannington	39	250	H	Llanddona	57	100*	H
Chatton	39	100	H	Oxford	57	500	H
Rosemarkie	39	100	H	Mendip	58	500	H
Keelylang Hill	40	100	H	Pontop Pike	58	500	H
				Waltham	58	250	H
				Midhurst	61	100	H
				Tacolneston	62	250	H

*) directional aerial.

+225 relay st's, not mentioned.

BBC-2 (625 lines, UHF) colour (System I).

Stations	ch	kW	Pol	Stations	ch	kW	Pol
Rowridge	24	500*	H	StocklandHill	26	250	H
Bilsdale West Moor	26	500	H	Craigkelly	27	100	H
Darvel	26	100	H	Divis	27	500	H
Eitshal	26	100	H	Blaenplwyf	27	100	H
Knock More	26	100	H	Rumster Forest	27	100	H

Stations	ch	kW	Pol
Sandy Heath	27	1000	H
Belmont	28	500	H
Caradon Hill	28	500	H
Ridge Hill	28	100	H
Durris	28	500	H
Crysystal Palace	33	1000	H
Wrekin	33	100	H
Caldbeck	34	500	H
Presely	40	100	H
Sutton Coldfield	40	1000	H
Redruth	44	100	H
Sudbury	44	250	H
Chatton	45	100	H
Hannington	45	250	H
Moel-y-Parc	45	100	H
Rosemarkie	45	100	H
Black Hill	46	500	H
Bluebell Hill	46	30	H
Keelylang Hill	46	100	H

Stations	ch	kW	Pol
Emley Moor	51	870	H
Wenvoe	51	500	H
Heathfield	52	100	H
Midhurst	55	100	H
Tacolneston	55	250	H
Dover	56	100*	H
Huntshaw Cross	62	100	H
Limavady	62	100	H
Selkirk	62	50	H
Winter Hill	62	500	H
Angus	63	100	H
Beacon Hill	63	100	H
Carmel	63	100	H
Llanddona	63	100*	H
Oxford	63	500	H
Mendip	64	500	H
Pontop Pike	64	500	H
Waltham	64	250	H

*) directional aerial.
+225 relay st's not mentioned.

D.Prgr: Trade Tests: 1030-1058, 1125-1130, 1600 until beginning of evening prgrs.
Prgrs: Mon-Fri 1100, 1125, 1930-2330; Sat 1500-0100; Sun 1630-2400. **Open University:** Broadcasts up to 33 hrs per week on BBC-1 and BBC-2, and up to 24 hrs per week on R.3 and 4.

INDEPENDENT BROADCASTING AUTHORITY (IBA) (Comm.)

Addr: 70 Brompton Rd, London SW3 TEY. **Te:** 01-584 7011. **L.P:** Chmn: Lady Plowden, OBE. Dir.Gen: Sir Brian Young. Dep.Dir.Gen. (Prgr.Sces): B.C. Sendall, CBE. Dept.Dir.Gen: (Adm. Sces): A.W. Pragnell, OBE, DFL.

Stations	ch	kW (ERP)	Pol.
Ridge Hill	6	10	V
Sandy Heath	6	30	H
Scarborough	6	1	H
Newhaven	6	1	V
Belmont	7	20	V
St. Hilary(W)	7	100	V
Burnhope	8	100	H
Lichfield	8	400	V
Presely	8	100	H
Richmond Hill	8	10	H
Rothesay	8	1	V
Rumster Fst.	8	30	V
Strabane	8	100	V
Black Mntn.	9	100	H
Croydon	9	350	V
Durris	9	400	H
Fremont Pt.	9	10	H
Llandrindod Wells	9	3	H
Stockland Hill	9	100	V
Winter Hill	9	100	V
Arfon	10	10	H
Aviemore	10	1	H
Black Hill	10	475	V
Dover	10	100	V
Emley Moor	10	200	V
St. Hilary	10	200	V
Angus	11	50	V
Caldbeck	11	100	H
Chillerton Down	11	100	V
Mendlesham	11	200	H
Moel-y-Parc	11	25	V
Caradon Hill	12	200	V
Lethanhill	12	3	V
Membury	12	30	H
Mounteagle	12	50	H
Selkirk	13	25	V
Crystal Palace	23	1000	H
Park Stoke	23	706	V

Stations	ch	kW (ERP)	Pol.
Chesterfield	23	2	V
Kilvey Hill	23	10	V
Rhondda	23	4	V
Mynydd Machen	23	2	V
Newton	23	2	V
West Runton	23	2	V
Aldeburgh	23	10	V
The Wrekin	23	100	H
Stockland Hill	23	250	H
Darvel	23	100	H
Knock More	23	100	H
Eitshal (Lewis)	23	100	H
Eyemouth	23	2	V
Bromsgrove	24	4	V
Fenton	24	10	V
Nottingham	24	2	V
Lancaster	24	10	V
Sheffield	24	5	V
Divis	24	500	H
Fenham	24	2	V
Sandy Heath	24	1000	H
Blaen-Plwyf	24	100	H
Craigkelly	24	100	H
Rumster Forest	24	100	H
Wharfedale	25	2	V
Torosay (Craignure)	25	20	V
Durris	25	500	H
Belmont	25	500	H
Caradon Hill	25	500	H
Bressay	25	10	V
Ridge Hill	25	100	H
Rothesay	25	2	V
Rowridge	27	500	H
Caldbeck	28	500	H
Bilsdale	29	500	H
Tunbridge Wells	41	10	V

Stations	ch	kW (ERP)	Pol
Hemel Hempstead	41	10	V
Wenvoe	41	500	H
Rosehearty	41	2	V
Sudbury	41	250	H
Arfon	41	4.2	V
Fremont Point	41	20	H
Londonderry	41	3.2	V
Cambret Hill	41	16	H
Redruth	41	100	H
Hannington	42	250	H
Guildford	43	10	V
Sutton Coldfield	43	1000	H
Black Hill	43	500	H
Conway	43	2	V
Presely	43	100	H
Weymouth	43	2	V
Keelylang Hill (Orkney)	43	100	H
Whitehaven	43	2	V
Newhaven	43	2	V
Bluebell Hill	43	30	H
Emley Moor	47	870	H
Douglas	48	2	V
Skipton	49	10	V
Ventnor	49	2	V
Llandrindod Wells	49	2	V
Moel-y-Parc	49	100	H
Chatton	49	100	H
Rosemarkie	49	100	H
Les Touillets	54	2	H
Midhurst	58	100	H
Stanton Moor	59	2	V

Stations	ch	kW (ERP)	Pol
Winter Hill	59	500	H
Tacolneston	59	250	H
Limavady	59	100	H
Haltwhistle	59	2	V
Barskeoch Hill	59	2	V
Huntshaw Cross	59	100	H
Selkirk	59	50	H
Reigate	60	10	V
Brierley Hill	60	10	V
South Knapdale	60	1.5	V
Salisbury	60	10	V
Brighton	60	2	V
Oxford	60	500	H
Llanddona	60	100	H
Carmel	60	100	H
Angus	60	100	H
Beacon Hill	60	100	H
Hertford	61	2	V
Kidder-minster	61	2	V
Kendal	61	2	V
Keighley	61	10	V
Pontop Pike	61	500	H
Mendip	61	500	H
Waltham	61	250	H
Gartly Moor	61	2.2	V
Plymouth	61	2	V
Penicuik	61	2	V
Rosneath	61	10	V
Heathfield	64	100	H
Malvern	66	10	V
Dover	66	100	H

+190 low power st's not mentioned.

D.Prgr: Trade Tests: W 0830 until 15 mins before start of prgr.
Independent Television News Ltd, ITN House, 48, Wells St, London W1P 4DE. **L.P:** Editor & Chief Exec: N. Ryan. Gen.Mgr: W. Hodgson. Dep.Editor: D. Nicholas – Provides the national & international news prgrs for all IBA areas.
Independent Television Companies Association, Knighton House, 52/56 Mortimer St, London W1N 8AN. **L.P:** Gen.Secr: Miss Mary Lund. Secr: Lionel Dunn – The Association acts on behalf of all prgr. companies on certain matters of common interest.
Prgr. Companies:
Anglia Television Ltd, Anglia House, Norwich NR1 3JG. **L.P:** Exec.Dir: A. Buxton – **ATV Network Ltd,** ATV Centre, Birmingham B1 2JP. **L.P:** Man.Dir: Lord Windlesham – **Border Television Ltd,** The Television Centre, Carlisle CA1 3NT. **L.P:** Man.Dir. & Contr. of Prgrs: J. Bredin – **Channel Islands Communications (Television) Ltd,** The Television Centre, Rouge Bouillon, St. Helier, Jersey, C.I. **L.P:** Man.Dir: K.A. Killip, OBE – **Grampian Television Ltd,** Queen's Cross, Aberdeen AB9 2XJ. **L.P:** Chief Exec: A. Mair, MBE, ACWA – **Granada Television Ltd,** Granada TV Centre, Manchester M60 9EA. **L.P:** Chmn. & Joint Man.Dir: Sir Denis Forman – **HTV Television Ltd,** Television Centre, Cardiff CF1 9XL. **L.P:** Man.Dir: A.J. Gorard – **London Weekend Television Ltd,** Kent House, South Bank TV Centre, Upper Ground, London SE1 9LT. **L.P:** Man.Dir: B. Tessler – **Scottish Television Ltd,** Cowcaddens, Glasgow G2 3PR. **L.P:** Dep.Chmn. & Man.Dir: W. Brown, MBE – **Southern Television Ltd,** Southern Television Centre, Northam, Southampton SO9 4YQ. **L.P:** Man.Dir: F. Copplestone – **Thames Television Ltd,** Thames Television House, 306-316 Euston Road, London NW1 3BB. **L.P:** Man.Dir: George A. Cooper – **Tyne Tees Television Ltd,** Television Centre, City Road, Newcastle-upon-Tyne NE1 2AL. **L.P:** Man.Dir: P. Paine – **Ulster Television Ltd,** Havelock House, Ormeau Road, Belfast BT7 1EB. **L.P:** Man.Dir: R.B. Henderson – **Westward Television Ltd,** Derry's Cross, Plymouth PL1 2SP. **L.P:** Man.Dir: R. Perry –

Yorkshire Television Ltd, The Television Centre, Leeds LS3 1JS. **L.P:** Man.Dir. & Dir. of Prgrs: P. Fox.

TV-sets: 17.940.000 – **Colour TV-sets:** 8.560.000 – **ALF:** £8.00 per household (monochrome), £18.00 per household (for colour sets).

GREECE

ELLIKINI RADIOPHONIA TILEORASSI (EPT-Gov.)

Addr: Tileorassis EIRT, 16 Mourouzi Str, Athens 188. **Te** 724811. **Studios:** P.O. Box 19, Ag. Paraskevi, Athens. **Te:** 6595970.
L.P: Dir.Gen: R. Manthoulis. Dir.Tec: C. Paspatis.

Stations (System B).

Location	ch	kW	Pol	Location	ch	kW	Pol
Thessaloniki	5	30/6	H	Gerania Mt.	9	10/2	H
Pilion Mt.	6	30/6	H	Corfu Isl.	9	10/2	V
Alexandroupolis	6	30/6	V	Rhodes Isl.	9	10/2	V
Kalamata	6	10/2	H	Mytilini Isl.	9	10/2	H
Chania	7	10/2	H	Tripolis	10	30/6	H
Kavala	7	30/6	H	Heraklion	10	10/2	H
Kastoria	7	30/6	V	Joannina	10	10/2	H
Kefalinia Isl.	8	30/6	V	Parnes Mt.	11	30/6	H
Thira Isl.	8	30/6	V				

+40 low power repeaters.

D.Prgr: W 1200-1315, 1630-2215; Sun 1100-2215.

YPIRESSIA ENIMEROSSEOS ENOPLON DHYNAMEON (YENED) (Hellenic Armed Forces Information Service.)

Addr: Tileorassis YENED, 136 Messogion Str, Athens. **Te:** 7779153.
L.P: Dir.Gen: Const. Triantafyllou. Dir.Prgrs: D. Vallindhras. Dir.Tec: D. Stavroulias.

Stations (System B).

Location	ch	kW/Pol
Athens	5	60/12 V
Thassos Isl.	23	1000/100 H
Manoliassa	25	250/50 H
Thira Isl.	29	500/100 H
Thessaloniki	30	1000/200 H
Dholiana	42	500/100 H
Akarnanika Mt.	43	1000/200 H
Vitsi Mt.	49	250/50 H

+26 low power repeaters.

D.Prgr: 1130-1245, 1600-2215(Sun 1130-2215).

AMERICAN FORCES RADIO & TV SERVICE

Station: Iraklion chA2 0.1kW.
D.Prgr: 1400(Sat/Sun 1100)-2200.
TV-sets: 1.165.000.

HOLLAND

NEDERLANDSE OMROEP STICHTING (NOS)

Addr. and L.P: See radio.
Stations (System B ch1-12; System G ch21-58). **Colour:** PAL System.
Prgr. I (Pol H): Ijsselstein chE4 100/10kW, Goes chE29 250/25kW, Eys chE51 1/0.1kW, Roermond chE5 50/5kW, Markelo chE7 30/3kW, Smilde chE6 40/4kW, Wieringermeer chE39 300/30kW, Arnhem chE50 30/3kW, Hulsberg chE57 100/10W, Wijk-aan-Zee chE33 4/0.4W, Maastricht chE53 1/0.1kW. Slenaken chE29 50/5kW, Noorbeek chE46 50/5kW.
Prgr. II (Pol H): Ijsselstein chE27 1000/100kW, Goes chE32 250/25kW, Eys chE54 1/0.1kW, Roermond chE31 500/50kW, Markelo chE54 300/30kW, Smilde chE47 1000/100kW, Wieringermeer chE45 300/30kW, Arnhem chE53 30/3kW, Hulsberg chE60 100/10kW, Wyk-aan-Zee chE49 4/0.4kW, Maastricht chE56 1/0.1kW. Slenaken chE35 50/5kW, Noorbeek chE52 50/5kW.

D.Prgr (Prgr. I): Sun 1500-1632, 1715-2200; Mon/Fri 1745-2300; Tues 1745-2245; Wed 1630-2230; Thurs 1745-2220; Sat 1430-1730, 1745-2215.
D.Prgr (Prgr. II): Sun 1755-2135: Mon-Thurs 1745-2230; Fri/Sat 1745-2215.
Ad: are permitted to a max. of 180 min's weekly on weekdays.
TV-sets: 3.645.948 (incl. 1.480.000 colour sets). **ALF:** Dfl. 108 – (radio included).

HUNGARY

MAGYAR TELEVIZIO

Addr: 1810 Budapest V, Szabadsagter 17. **Te:** 113-200. **Telex:** 225568 – **L.P:** Pres: Richard Nagy. Vice-Pres: Károly Megyeri. Dir.Tec: Robert Kerpel. Dir.Adm: László Fazekas. Head, For.Rel: Annamaria Berecz.
Stations (Prgr I System D/Prgr II System K):

Prgr I	ch	kW (ERP)	Pol	Prgr 1	ch	kW (ERP)	Pol
Budapest	R1	150/30	H	Szentes	R10	200/40	V
Nagykaniza	R1	60/12	V	Kabhegy	R12	150/30	H
Pecs	R2	60/12	V	+7 st's not mentioned.			
Tokaj	R4	80/16	H	**Prgr II** (Colour/SECAM)			
Komadi	R7	30/6	V	Budapest	R24	4/1.3	H
Kekes	R8	30/6	H	Tokaj	R26	450/90	H
Miskolc	R9	5/1	H	Pecs	R32	20/4	
Sopron	R9	5/1	V				

D.Prgr: Prgr. I: 48 hrs weekly; Prgr II: 15 hrs weekly.
TV-sets: 2.495.000 (incl. 15.000 colour sets) – **ALF:** 600 Forint.

ICELAND

RIKISUTVARPID-SJONVARP ICELAND BROADCAST SERVICE-TELEVISION

Addr: Laugavegur 176, Reykjavik. **Te:** 3-88-00. **Telex:** 2035. **Cable:** Isvision.
L.P: Dir.Gen: A. Björnsson. Dir.TV: P. Gundfinnsson, Dir.Tec: H. Frimannsson. Head of N. and Educ: E. Bjrnsson. Head of Arts and Entertainment: J. Thorarinsonn.

Stations	chE	kW (ERP)	Stations	chE	kW (ERP)
Stykkishólmur	3	90	Vadlahaidi	6	490
Skálafell	4	300	Háfell	7	300
Gagneheidi	4	80	Hegranes	8	3
Heiderfjall	5	5	Blönduós	9	10-
Vestmannaeyjar	5	30	Reykjavik	10	4

+66 low power repeaters.

D.Prgr: Mon, Fri 2000-2300; Tues 2000-2300; Wed 1800-2000, 2000-2300; Sat 1700-1900, 2000-2300; Sun 1800-1900, 2000-2300; Thurs no prgr.

TV-sets: 47.833 – **ALF:** Kr. 12.000,-

IRELAND

RADIO TELEFIS EIREANN (Statutory Corporation)

Addr: Donnybrook, Dublin 4. **Te:** (01)693111. **Telex:** 5268.
L.P: Contr. of Prgrs: J. White. For other personnel: See radio.
Stations (System A): Audio powers ¼ of vision powers.

System A	ch	kW	Pol
Dublin	B7	100	H
Sligo	B11	100	V

+5 low power relay sts.

System I	ch	kW	Pol		ch	kW	Pol
Dublin	H	100	H	Cork	D	100	V
Gort	B	80	H	Sligo	J	100	V
Kilkenny	F	100	V				

System I: Audio powers 1/5 of vision powers(exc. for Sligo: 1/10).
+15 low power relay sts.

D.Prgr: W 1600-2400; Sun 1400-2350.
Fi: By license payments and adv – **Add:** 10 of prgr. hrs.
Colour TV: PAL system adopted(5 studios+2 mobiles).
TV-sets: 600.000(incl. 60.000 colour sets) – **ALF:** £16.00(black/white), £27.00(colour).

ITALY

RADIOTELEVISIONE ITALIANA

The television service is an integral part of the Radiotelevisione Italiana.
Addr: Direzione Centrale TV, Viale Mazzini 14, 00195 Roma.
L.P: Vice-Dir.Gen: Leone Piccioni(TV coordinator). Dirs. of Prgrs: Domenico Scarano(TV 1), Massimo Fichera(TV 2), Giuseppe Rossini(Educational Broadcasting), Emilio Rossi(News TV1), Andrea Barbato(News TV2).

NATIONAL PROGRAMME (System B)
Piemonte-Valle Aosta: Torino(C-o) 16kW-St. Vincent (G-o) 0.3kW+37 satellites.
Lombardia: Milano(G-o) 24kW – M. Penice(B-o) 100kW–Stazzona(E-v) 0.3kW+79 satellites.
Trentino-Alto Adige: Paganella(G-o) 1.4kW+59 satellites.
Friuli-Venezia Giulia: Trieste(G-o) 15kW –Udine(F-o) 2kW – Tolmezo(B-o) 0.13kW – M. Tenchia(G-o) 0.07kW – MS Lussari(E-o) 0.125kW+31 satellites.
Veneto: M. Venda(D-o) 100kW-Visentin(H-o) 1.6kW+82 satellites.
Liguria: Portofino(H-o) 127kW+57 satellites.
Toscana: M. Argentario(E-o) 2.5kW – M. Serra(D-o) 270kW+61 satellites.
Emilia-Romagna: Bertinoro(F-v) 0.5kW+2 satellites.
Marche: M. Conero(E-o) 24kW – M. Nerone(A-o) 34kW+54 satellites.
Umbria: M. Peglia(H-o) 34kW+23 satellites.
Lazio: M. Favone(H-o) 0.9kW – Roma(G-o) 36kW+28 satellites.
Abbruzzo: Pescara(F-o) 14kW+26 satellites.
Campania: M. Faito(B-o) 40kW – M. Vergine(D-o) 1kW+56 satellites.
Puglia: Martina Franca(D-o) 220kW – M. Caccia(A-o) 34kW – M. Sambuco(H-o) 35kW+49 satellites.
Calabria: Gambarie(D-o) 19kW – M. Scuro(G-o) 8kW – Roseto Spulico(F-v) 12kW+28 satellites.
Sicilia: M. Cammarata(A-o) 35kW – M. Lauro(F-o) 50kW – M. Pellegrino(H-o) 8kW – M. Soro(E-o) 5kW+55 satellites.
Sardegna: M. Limbara(H-o) 3kW – M. Serpeddi(G-o) 35kW – Punta Badde Urbara(D-o) 145kW+42 satellites.
D.Prgr: W 0830-1430 "Telescuola"(for schools), 1730-1830(Children's h.), 1830-2315(approx): Sun 1015-1200, 1500-2315.

SECOND PROGRAMME (System G)
Piemonte-Valle Aosta: Torino(ch30) 200kW – St. Vincent(ch31) 16kW+23 satellites.
Lombardia: Milano(ch26) 15kW – M. Penice(ch23) 1800kW+31 satellites.
Trentino-Alto-Adige: Paganella(ch21) 10kW+35 satellites.
Veneto: M. Venda(ch25) 1000kW+25 satellites.
Friuli-Venezia Giulia: Trieste(ch31) 25kW – Udine(ch22) 150kW+13 satellites.
Liguria: M. Beigua(ch32) 60kW – Portofino(ch29) 1000kW+24 satellites.
Toscana: M. Argentario(ch24) 250kW – M. Serra(ch27) 200kW – Monte Luco(ch23) 20kW+27 satellites.
Emilia-Romagna: Bertinofo(ch30) 4.51W+10 satellites.
Marche: M. Conero(ch26) 200kW – M. Nerone(ch33) 200kW+23 satellites.
Umbria: M. Peglia(ch31) 200kW+11 satellites.
Lazio: Roma(ch28) 150kW – M. Favone(ch29) 20kW+15 satellites.
Abruzzo-Molise: Pescara(ch30) 30kW+14 satellites.
Campania: M. Faito(ch23), 1400kW – M. Vergine(ch31) 15kW+29 satellites.
Puglia: Martina Franca(ch23), 700kW – M. Caccia(ch25) 400kW – M. Sambuco(ch27) 200kW+17 satellites.
Basilicata: M. Pierfaone(ch21) 4kW+9 satellites.
Calabria: M. Scuro(ch28) 30kWW – Gambarie(ch26) 200kW+16 satellites.
Sicilia: M. Cammarata(ch34) 200kW – M. Pellegrino(ch27) 40kW – M. Soro(ch32) – M. Lauro(ch24) 200kW+29 satellites.
Sardegna: M. Limbara(ch32) 20kW – M. Serpeddi(ch30) 25kW – Punta Badde Urbara(ch27) 200kW+18 satellites.
Pol: All sts H exc. M. Faito, M. Argentario, Pescara, Punta Badde Urbara, Gambarie, M. Pellegrino.
D.Prgr: Sun 1800-1925, 2100-2330(approx); W 2100-2315(approx).

LUXEMBOURG

TELE LUXEMBOURG (Comm.)

Addr: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg.
L.P: Dir.Gen: G. Graas. Dir.Adm: P. Ulveling. Dir.Prgr: J. Navadic. Chief Eng: P. Faber.
Stations: Dudelange ch7 (System C) 100/25kW H, Dudelange ch21 (System L) 1000/100kW+1 low power satellite (2 studios).
D.Prgr: 1650(Wed-Sat 1600)-2135, Sun 1215-1315, 1600-2135.
Colour: PAL used on ch7 (for Belgian viewers) and SECAM used on ch21 (for French viewers).
TV-sets: 84.000.

MALTA

XANDIR TELEVISION (TV division of Telemalta Corpo.)

Addr: see Radio.
L.P: Head of TV Prgrs: M. Spiteri. Head of Tech. Sce's: Robert Crossey (for other personnel: see radio).
Station: ChE10 10/2.5kW H.
D.Prgr: 1700-2230.
FI: Adv. revenue and contributions for certain prgrs prescribed by Malta Broadcasting Authority.

TIVUMALTA LIMITED (Comm.)

Station: ChE21 10/2.5kW H.
D.Prgr: 1830-2130.
TV-sets: 69.000 – **ALF:** £M 4-0-0.

MONACO

TELE MONTE-CARLO (Comm.)

Addr: 16 Blvd. Princess Charlotte, Monte-Carlo. **Cable:** Tele-Carlo. **Te:** 305940.
L.P: Dir.Gen: J. Frydman. Gen.Mgr: J.F. Micheo.
Stations (System C): chE10 50/12.5kW – (System L): chE35 2/0.4kW.
D.Prgr: 1730-2200 (French ch10, Italian ch35).
Colour: SECAM on both channels.
TV-sets: 16.250.

NORWAY

NORWEGIAN BROADCASTING CORPORATION-TELEVISION

Addr: Oslo 3. **Te:** 469860. **Telex:** International Relations 16820. Eurovision 11794. TV News: 18530.
L.P: Dir.Gen (Radio & TV): Torolf Elster. Dir.Adm* Finance: O. Granlund. Techn.Dir: Kjell Lövaas. Dir.Prgr, TV: O. Nes. Heads of Depts: News: T. Berg. Cultural & Current Affairs: O. Foss. Sports and O.B: J. Höysaeter. Films: R.H. Rodin. International Rel: A. Birkeland. Eurovision: R. Dey. Sales: S. Torjusson (see also Radio).

Stations	ch	kW (ERP)	Stations	ch	kW (ERP)
Greipstad	2	60	Nordkapp	6	30
Gulen	2	30	Oslo	6	100
Melhus	2	100	Andenes	6	4
Steigen	2	60	Reinsfjell	6	60
Varanger	2	30	Hovdefjell	7	30
Bagn	3	10	Salten	7	30
Gamlemsveten	3	60	Sogndal	7	20
Hermnes	3	60	Alta	7	6
Kautokeino	3	8	Mosvik	7	20
Bremanger	4	30	Bokn	8	100
Hadsel	4	30	Gausta	8	3
Kongsberg	4	100	Jetta	8	30
Førde	5	1.2	Kappfjell	8	2
Grong	5	30	Kistefjell	8	30
Karasjok	5	10	Tana	8	30
Lyngen	5	3	Bergen	9	140
Nordhue	5	60	Hammerfest I	9	30
Stord	5	30	Kongsvinger	9	10
Bjerkreim	6	15	Lyngdal	9	30
Hestmannen	6	4.6	Tron	9	30

Stations	ch	kW ERP	Stations	ch	kW ERP
Vega	9	30	Fister	11	1.5
Fauske	10	1.1	Halden	11	60
Lillehammer	10	1	Kopparen	11	12
Narvik	10	30	Lønahorgi	11	10
Norfjordeid	10	3	Trolltind	11	60
Skien	10	60			

+629 low power satellites less than 1kW not mentioned.

D.Prgr: W 0830-1600(exc. Sun and Tues) tests; 1630-2130(approx).
Colour TV: PAL system adopted.
TV-sets: 1.058.496 (incl. 248.142 colour sets) – **ALF** (combined radio+TV): N.Kr. 320, +N.Kr. 100 for colour receivers.

POLAND (People's Republic of)

POLSKIE RADIO TELEWIZJA (Gov.)

Addr: Telewizja, Woronica 17, Warszawa. **Te:** 438000. **Cable:** Telewar. **Telex:** 813421.
L.P: Dir. of Inf. TV: S. Czesnin. Film Buyer: J. Fusiewicz. For other personnel: see radio.
Stations (System D): Colour: SECAM System.
Prgr. I: Powers=ERP.

Location	ch	kW	Location	ch	kW
Bydgoszcz	1	100/10	Poznan	9	150/30
Warszawa I	2	100/20	Olsztyn	9	100/20V
Kielce	3	100/20	Gdansk	10	100/20*
Zielona Gora	3	200/40*	Krakow	10	200/40
Suwalki	5	100/20	Opole	10	1/0.1*
Olsztyn	6	10/2	Gizycko	11	1/0.2
Lódz	7	100/10	Zgorzelec	11	3/0.3
Bialystok	8	100/10	Rzeszów	12	100/20V
Katowice	8	265/50	Szczecin	12	100/20
Koszalin	8	100/10	Wroclaw	12	150/30
Lublin	9	120/24V			

+92 low power satellites – *) directional aerial.

D.Prgr: 0800-1000, 1600-2000.
Prgr. II:=Powers ERP.

Location	ch	kW	Location	ch	kW
Krakow	2	1/0.1V*	Bialystock	11	1/0.2V
Lublin	2	0.4/0.04V	Poznan	11	0.4/0.08H
Wroclaw	2	1/0.1H	Koszalin	11	0.5/0.1V
Gdansk	3	2/0.6H	Katowice	21	500/100H
Olsztyn	3	1/0.2V*	Tarnow	22	15/1.5
Kielce	5	2/0.4H	Wroclaw	25	1000/200H
Katowice	6	1/0.2H	Rzeszów	29	0.1/0.01H
Rzeszow	7	0.5/0.05V	Zielona Gora	29	1000/100H
Szczecin	7	0.5/0.1V	Jelenia Gora	35	200/20H*
Zielona Gora	10	1/0.2H	Bydgoszcz	36	100/10
Lodz	10	1/0.1V	+9 low power satellites.		
Warszawa II	11	50/10H			

D.Prgr: W 1745-2200(exc. Mon and Thurs), Sun 1615-2100.
TV-sets: 6.875.000 – **ALF:** Zlotys 480,-(radio+TV combined).

PORTUGAL

RADIOTELEVISÃO PORTUGUESA S.A.R.L. (Comm.)

Addr: Head Office: Rua de S. Domingos (á Lapa) 26, Lisboa. **Te:** 666134. Cable: Televisao. **Telex:** 1576. Mailing addr: Apartado 2934, Lisboa.
Stations (System B): Lisboa ch7 100/20kW H. Porto ch9 100/20kW H, Coimbra ch3 60/12kW H, Montejunto ch6 22/4.4kW H, Mendro ch5 30/6kW, Muro ch2 40/8kW V.
Relay st's: Monchique ch8 15/3kW H, Marofa ch5 5/1kW, Covilha ch10 10/2kW h + 28 repeaters noot mentioned.
D.Prgr: 1300-2330.
Second Prgr. (System G): Lisboa ch25 420/84kW H, Lousa ch26 550/110kW H, Mendro ch27 560/112kW H, Muro ch27 550/110kW H, Porto ch41 300/60kW H, Montejunto ch46 200/40kW H.
D.Prgr. 19.45-2330 (3 Studios in Lisboa + 1 in Oporto).
TV-sets: 722.678 – **ALF:** Esc. 480.

ROMANIA

RADIOTELEVIZIUNEA ROMANA (Gov.)

Addr: Calea Dorobanti 191, Bucuresti. **Te:** 793290. **Cable:** Radioteleviziunea. **Telex:** 11251.
L.P: See radio.
Stations (System D): Pol=H(exc. where indicated); Monochrome.

	ch	kW		ch	kW
Bucuresti	R2	100	Vascau	R8	5
Oradea	R3	120	Iasi	R9	25
Semenic	R3	15V	Timisoara	R9	50
Suceava	R4	100	Magura	R9	10V
Birlad	R5	50V	Baia Mare	R10	25
Odorhei	R5	50	Topolog	R10	50
Mures	R5	4	Brasov	R10	10
Ploesti	R6	150	Petroseni	R10	5
Bucuresti	R6	7	Cluj	R11	25
Sibiu	R7	50	Arad	R12	50
Constanta	R8	5V	Comanesti	R12	20
Craiova	R8	150	Deva	R12	20
Rarau	R8	15			

D.Prgr. Prgr. I: Mon-Fri 1400-2030(Tues and Fri also 0800-1100); Sat 0900-2100; Sun 0630-2030.
Prgr. II: Mon 1500-2010; Tues/Wed 1800-2030; Thurs 1800-2010; Fri 1500-2015; Sun 0800-0945, 1800-2030.
TV-sets: 2.854.779 – **ALF:** Lei 180.

SPAIN

TELEVISION ESPAÑOLA (Gov.)

Addr: Apt. de Correos 26002, Madrid 11. **Te:** 2182040. **Telex:** 27694.
L.P: Dir.Gen: J. Sancho Rof. Vice-Dir.Gen: L. Ezcurra C. Dir.TVE: L. Bueta F. Dir.Tec: L. Liaño.
Stations (System B): chE. Powers=ERP.
1st Prgr: Audio powers 1/5 of vision powers indicated.

City	ch	kW/Pol	City	ch	kW/Pol
Madrid	2	250H	Mallorca	6	30H
Oviedo	3	70H	Granada	7	200H
Alicante	3	60H	León	7	22V
Zaragoza	3	35H	Burgos	8	13H
Barcelona	4	150H	La Musara	8	22H
Sevilla	4	120H	Leòn	8	6.2H
Coruña	4	120H	Ciudad Real	9	90H
Bilbao	4	60H	Granada	9	30H
Madrid	4	2H	Tarragona	10	60H
Jaén	5	60H	Pontevedra	10	10H
Coruña	5	50H	Cáceres	11	45H
Zaragoza	5	24H	Córdoba	11	10H
Valencia	5	10H	+17 translators not mentioned.		
Lérida	5	3H			

D.Prgr: Mon-Fri 1300-1530, 1700-2300; Sat 1130-2330; Sun 1030-2300.
2nd Prgr. (System G): Audio powers 1/5 of vision powers indicated.

City	ch	kW/Pol	City	ch	kW/Pol
Santiago	2	40H	Pontevedra	39	100H
Madrid	21	100H	Jaen	39	372H
Ares	22	200H	Villadiego	41	200H
Bilbao	22	60H	C. de la Sierra	41	200H
Valencia	22	60H	Mallorca	48	125H
Madrid	24	1500H	San Sebastian	48	100H
Barcelona	31	300H	Sevilla	52	100H
Alicante	32	100H	+16 translators not mentioned.		
Zaragoza	33	250H			

Colour TV: PAL system adopted.
D.Prgr: 1930-2300.
TV-sets: 6.640.000.

SWEDEN

SVERIGES RADIO

Swedish TV, run by Sveriges Radio, has the same non-comm, and official status as the broadc. service.
Addr: Radiohuset, Oxenstiernsgatan 20, Stockholm. Postal Addr: Stockholm 105 10. **Te:** 670865(local 631000). **Cable:** Broadcast.

L.P: Dir.Prgr: I.H. Unsgaard, Dir.Prgr.II: O. Wallqvist. Prgr.Sce: L.E. Kjellgren. Eurovision: Mrs. M. Lamby. For other personalities: see Radio.

The Swedish Telecommunications Administration has the responsibility for the distribution of the prgrs produced by Sveriges Radio and has also charge of the collection of Fees.

Addr. and L.P: See Radio.

Stations (System B ch2-11, System G ch21-68): Sound power 1/10 of vision power stated.

Prgr. 1 (Systems B and G):

Name	ch	Pol	kW (ERP)	Name	ch	Pol	kW (ERP)
Hörby	2	H	100	Västervik	6	H	60
Örebro	2	H	60	Skellefteå	6	H	35
Vännäs	2	H	60	Borås	6	H	3
Uddevalla	2	V	5	Uppsala	6	H	3
Skövde	3	H	60	Örnsköldsvik	6	H	7
Sveg	3	H	60	Halmstad	7	H	60
Stockholm	4	H	60	Pajala	7	H	60
Östersund	4	H	100	Sollefteå	7	H	60
Finnveden	4	V	3	Sunne	7	H	60
Ävlsbyn	4	H	60	Motala	7	H	10
Arvidsjaur	5	H	60	Trollhätan	7	H	1
Norrköping	5	H	60	Väddö	8	V	200
Sundsvall	5	H	60	Bäckefors	8	H	60
Vislanda	5	V	10	Emmaboda	8	H	60
Karlstad	5	V	1	Jönköping	8	H	1
Bollnäs	6	H	60	Kalix	8	H	60
Kiruna	6	H	60	Lycksele	8	V	30
Ånge	8	H	15	Borlänge	10	H	60
Mora	8	V	10	Nässjö	10	H	60
Västerås	8	H	10	Storuman	10	H	60
Filipstad	9	H	5	Malmö	10	H	1
Gällivare	9	H	60	Varberg	10	V	1
Gävle	9	H	60	Överkalix	10	H	5
Göteborg	9	H	60	Hudiksvall	11	H	4
Tåsjö	9	H	60	Kisa	11	H	30
Visby	9	H	60	Östhammar	11	H	30
Karlskrona	9	V	3	Karlshamn	11	H	10
Helsingborg	9	H	1	Ängelholm	22	H	1.6
Linköping	9	H	1	Hörby	43	H	1000

+167 low power trs(not mentioned).

D.Prgr (School prgrs not included): Mon-Fri 1655-2100(or 2115); Sat 0830-1015, 1345-2130(or 2215); Sun 0900-1000, 1530-2100.

Prgr. 2 (System G) (all sts with Pol H)

Name	ch	kW (ERP)	Name	ch	kW (ERP)
Arvidsjaur	21	1000	Gällivare	33	1000
Sveg	21	1000	Storuman	33	1000
Mora	22	1000	Karlskrona	34	20
Nässjö	22	1000	Pajala	34	1000
Stockholm	23	1000	Kalix	35	1000
Uddevalla	23	1000	Ävlsbyn	36	1000
Halmstad	24	1000	Skövde	37	1000
Bäckefors	26	1000	Tåsjö	37	1000
Karlshamn	26	1000	Örnsköldvik	39	200
Västervik	26	1000	Visby	41	1000
Östhammar	26	1000	Borås	42	1000
Degerfors	27	5	Ånge	42	250
Gävle	27	1000	Karlstad	43	200
Malmö	27	150	Motala	45	1000
Östersund	27	1000	Lycksele	45	1000
Jönköping	28	15	Överkalix	45	1000
Bollnäs	29	1000	Skellefteå	46	1000
Kiruna	29	1000	Sollefteå	46	1000
Härnösand	29	5	Borlänge	47	1000
Göteborg	30	1000	Sundsvall	47	1000
Helsingborg	30	10	Vännäs	47	1000
Emmaboda	31	1000	Finnveden	48	1000
Hudiksvall	31	1000	Örebro	48	1000
Västerås	31	1000	Kisa	49	1000
Norrköping	32	1000	Uppsala	49	15
Vislanda	32	1000	Varberg	49	200
Filipstad	33	1000	Sunne	50	1000
Hörby	33	1000	Trollhättan	51	20

+141 low power trs(not mentioned).

D.Prgr: Mon-Fri 1630-2130; Sat 1300-2200; Sun 1400-2100.

Colour TV: PAL system used; approx. 83(of which 85% colour) hrs per week. **Receiver fees:** 2.959.757(incl. 1.599.366 colour sets) – Annual Receiver Fee: Sw.Kr. 220,- – Annual Fee for colour sets: Sw.Kr. 320,-.
(Studios in Stockholm and 10 reg. cities).

SWITZERLAND

SBC-SWISS BROADCASTING CORPORATION

The SBC's Television programme services are an integral part of the Swiss Broadcasting Corporation.

Addr: SBC, Giacomettistrasse 3, 3000 Berne 15. **Cable:** Radif. **Te:** (031)439111. **Telex:** 32116.

L.P: see radio section.

Prgr. Sce. in German: Radio-TV Dir: Gerd H. Padel, Hagenholzstrasse 81, 8052 Zürich. **Te:** 01/503411. TV Prgr.Dir: Dr. Guido Frei, Fernsehstrasse 1-4, 8052 Zürich. **Te:** 01/500500. **Prgr. Sce. in French:** Radio-TV Dir: Réne Schenker, 6, ave de la Gare, 1001 Lausanne. **Te:** (021)205911. TV Prgr.Dir: Alexandre Burger, 20 quai Ernest Ansermet, 1211 Genève 8. **Te:** (022)293333. **Prgr. Sce. in Italian:** Radio-TV Dir: Franco Marazzi, 6903 Lugano-Besso, Radio-TV Prgr.Dir: Ch. Darani. **Te:** (91)33021.

Stations (Systems B & G):

German Prgr.	ch	kW (ERP)		ch	kW (ERP)
Bantiger	2	100	La Chaux-de-Fonds	32	18
Uetliberg	3	60	Olten	42	14
Rigi	6	30	Haute Nendaz	43	30
Säntis	7	30	Mt. Pelerin	44	18
Celerina	9	3	Gruyères	46	1
Valzeina	10	5	Monte Ceneri	46	35
Gebidem	11	3	Schaffhausen	47	14
St. Chrischona	11	50	Ravoire	51	8
Niederhorn	12	5	Monte San Salvatore	54	100
Chasseral	25	20	Chamossaire	57	2
P. Matro	29	16	+288 low power st's.		
La Dôle	31	400			
Les Ordons	31	14			
French Prgr: *Experimental.					
La Dôle	4	144	Ausserberg	37	1
Haute Nendaz	7	3	Olten	45	14
Les Ordons	7	4.5	St. Chrischona	46	200
Le Chaux-de-Fonds	9	4.5	Celerina	49	16
Ravoire	9	1.8	Monte Ceneri	49	35
Bantiger	10	100	Schaffhausen	50	14
Mont Pelerin	11	5.8	Ziegelbrücke	51	1.6
Chasseral	22	20	Gebidem	52	22
Feldis	24	1.5	Bantiger	53	1.15
Uetliberg	23	160	Valzeina	56	20
Niederhorn	27	15	Monte San Salvatore	57	100
Säntis*	31	158	+181 low power st's.		
Rigi	32	130			
Italian Prgr: *Experimental					
Celerina	7	3	Bantiger	40	300
Monte Ceneri	5	4.5	Haute-Nendaz	46	30
Monte San Salvatore	10	10	Mt. Pelerin	47	18
Feldis	21	1.5	St. Chrischona	49	200
Uetliberg	26	160	Gruyères	49	1
Rigi	29	130	Ofenpass	53	1
Niederhorn	30	15	Valzeina	53	20
La Dôle	34	400	Ravoire	54	8
Les Ordons	34	14	Ziegelbrücke	54	1.6
Säntis*	34	158	Gebidem	55	22
La Chaux-de-Fonds	35	18	Chasseral	56	20
Ausserberg	40	1	Chamoissaire	60	2
			Schaffhausen	60	14
			Olten	63	14

+182 low power st's (TV studios 3).

D.Prgr: German: Sun 0800-1100, 1300-2200; Mon 1630-2200; Tues 0800-1030, 1500-2130; Wed 1630-2200; Thurs 1400-2200; Fri 0800-1030, 1600-2200; Sat 0800-1100, 1300-2200.

French: Sun 0900-2130; Mon 1630-2130; Tues 1700-2130; Wed 1630-2200; Thurs 1700-2130; Fri 1630-2300; Sat 0900-2130.

Italian: Sun 1230-2230; Mon 1700-2200; Tues 0700-1000, 1700-2200; Wed 1700-2200; Thurs 1700-2200; Fri 1300-1430, 1700-2200; Sat 0900-1000, 1230-2230.

Colour TV: Using PAL-system.
FI: By the proceeds from the TV licence fees, divided between the SBC and PTT at the rate of 70.30 per cent, and since February 1st, 1965 by the proceeds from commercial television (1975: 20 min's on weekdays at the rate of 15.800 Sw. Frc. a minute for Telecasting in all three Swiss prgrs).
TV-sets: 1.790.611 (incl. approx. 730.000 colour sets) – **ALF:** Frc. 120,-.

USSR

THE SOVJET TELEVISION (Gov.)

Addrs of the most important TV studios: Tsentralnaja studija televidenija, Moskva 127000, ul. Akademika Koroljova 12 – Leningradskaja studija televidenija, Leningrad, ul. Malaja Sadovaja 2 – Kijevskaja studija televidenija, Kiev, Kretshchatik 24 – Minskaja studija televidenija, Minsk, ul. Kalinina 6 – Rizhskaja studija televidenija, Riga, ul. B. Nometnu 62 – Tallinskaja studija televidenija, Tallin, ul. Krejsvalda 14 – Bakinskaka studija televidenija, Baku, Parkovajaul – Tashkentskaja studija televidenija, Tasjkent, ul Navoi 69 – Yerevanskaja studija televidenija, Yerevan pr. Ordzhonokidze 22 – Tbiliskaja studija televidenija, Tbilisi, pr. Rustaveli 12 – Vilnjusskaja studija televidenija, Vilnivs – Alma-Atkinskaja studija televidenija, Alma-Ata – Kishinevskaja studija televidenija, Kishinev.
Stations (System D; Colour System: SECAM), Pol: H. Moscow ch1 15/5kW – Moscow ch3 7.5/3kW Moscow ch8 (colour).
D.Prgr: Prgr I (ch1: 0700-1000,1400-2100(Sat/Sun 0600-2100). **Prgr. II** (ch3): 1500(Sat 1400, Sun 1300)-2000(Sun 2100). **Prgr. III** (ch8): Tues-Sat 0835-0900, 1415-1500. **Prgr. IV** (ch8): 1630-1900.

Location	chR	kW
†Abakan	1	2/0.4
Aktyubinsk[12]	1	
†Arkhangelsk	1	
†Armavir	1	
†Ashkabad	1	
†Astrakan	1	5/2
†Biysk	1	50/10
†Dushanbé	1	
†Dzhezkazgan	1	
†Frunze	1	
†Karaganda	1	
†Kazan	1	2/0.4
†Kiev II	1	1/0.2
†Komsomolsk	1	
Krasnodar	1	50/10
Krivoirog[4]	1	
Kuldiga[8]	1	
†Leningrad	1	15/4
†Lvov I	1	
†Magadan	1	
†Minsk	1	5/2
Nalchik	1	5/2
†Norilsk	1	
†Omsk	1	5/2
†Perm	1	
†Rostov/Don	1	
Saratov	1	
†Sochi	1	
†Tomsk	1	5/2
Tyumen	1	5/2
†Ufa I	1	5/2
Ust Kameno gorsk[12]	1	
†Vladivostok	1	7/1.4
†Yerevan	1	
Voronezh I	1	5/2
Andizhan[1]	2	
Bryansk[6]	2	
Gorkiy	2	20/4
†Kailmin[6]	2	2/1
†Kiev I	2	15/4
Komsomolsk/ Ivanovo	2	
†Krasnoyarsk	2	
Lugansk[4]	2	
†Lvov II	2	
Nikolayev[4]	2	
†Novosibirsk	2	
†Petrozavodsk	2	5/2.5
Pyatigorsk	2	10/2
†Rubtsovsk	2	
Ryazan[6]	2	
†Tallinn I	2	15/4
†Vilnius II	2	
Uralsk	2	
†Yaroslavl	2	
†Alma Ata	3	5/2.5
†Baku	3	5/2.5
†Barnaul	3	
†Blagove- shchensk	3	5/2
Kherson	3	2/0.4
†Frunze II	3	
Gomel	3	
†Gorkiy	3	20/8
†Groznyy	3	
Irkutsk	3	
Izhevsk	3	
†Khabarovsk	3	5/2
†Kharkov	3	7/3.5
†Kherson	3	
†Kiev	3	20/4
Kirov	3	
†Kishinyev	3	15/4
Konotop	3	
Kostroma[5]	3	
†Kurgan	3	5/2
Kuybyshev[4]	3	
†Leningrad II	3	
Lutsk[4]	3	
Magnitogorsk	3	10/2
†Murmansk	3	
†Peropavlovsk	3	
Riga I	3	5/2
†Sebastopol	3	7/3.5
Simferopol[4]	3	
†Sverdlovsk	3	5/2
†Tallinn II	3	10/4
†Tashkent	3	5/2.5
Ukhta	3	
†Ulan Ude	3	
Vorkuta	3	25/5
Yuzhno Sakhalinsk	3	
Chistopol	7	
†Klaipeda I	7	50/10
Yoshkar Ola	7	
†Klaipeda II	7	
Tselinograd	7	
Aktyubinsk	8	
Saransk	8	
Semipalatinsk	8	
Tartu[7]	8	
Novosibirsk II	8	
Chelyabinsk	8	
Tsesvayne[8]	8	
†Yerevan II	8	
Birobidzhan[4]	9	
Belebey[10]	9	
Kursk	9	
Leninsk	9	
Lipetsk	9	
Pskov	9	
Tselinograd	10	
Ust-Kamenogorsk	10	
Yelabuga	10	
Beltsy[2]	10	
†Riga II	10	
Tula	10	
Ufa	10	
†Ufa II	10	
†Volgograd II	11	
Kohtla Järve	11	
Nizhnekamsk	11	
Salavat II[10]	11	
Uralsk	11	
Shyaulyay	11	
Belebey II[10]	11	
Belgorod[6]	12	
Bratsk	12	
Karaganda	12	
Makhachkala	12	
Tula II	12	
†Chelyabinsk	4	
†Donetsk	4	15/3
†Kaliningrad	4	
Kaluga[6]	4	
Narva	4	
Novgorod[9]	4	
Pärnu[7]	4	
Penza[6]	4	
Salavat[10]	4	
Semipalatinsk	4	
†Tbilisi	4	5/2
†Vilnius I	4	15/3
Vladimir[6]	4	
†Volgograd I	4	
Cerepovcy	5	50/10
†Dnepro- petrovsk	5	5/2
Ivanovo[5]	5	
Kemerovo	5	
Jarve[7]	5	
Krasnodar	5	150/50
Kurgan	5	1/0.2
Liyepaya	5	
Novomoskovsk	5	10/2
†Odessa	5	15/3
Ordzhonikidze	5	
Smolensk[6]	5	
Ulyanovsk	5	
Voronezh II	5	
Ventspils	5	
Viljandi	5	
Chernigov[4]	6	
Krasnodar	6	50/10
Orel	6	
Tambor[6]	5	
Ussuriysk[11]	6	
Vinnitsa	6	
Zaporozhe[4]	6	
†Baku II	6	
Brest	7	

1) relays Tashkent; 2) relays Kishinev; 3) relays Khabarovsk; 4) relays Kiev; 5) relays Yaroslavl; 6) relays Moscow; 7) relays Tallinn II; 8) relays Riga; 9) relays Leningrad; 10) relays Ufa; 11) relays Vladivostok; 12) relays Alma-Ata – †) TV centre. There are more than 350 large capacity transmitting stations and about 1500 relay stations in operation.
TV-sets: 64.000.000 (incl. 1.000.000 colour sets).

YUGOSLAVIA

RADIO TELEVISION YOUGOSLAVE

Addr. & L.P: Radiotelevision Yougoslave: 70B, Kidrica, Beograd. **Te:** 433 698. **Telex:** 11469 Yu Jurate, Beograd. **L.P:** Pres.Prgr.Com.TV: B. Puharic. Secr. Board of TV Prgr: M. Milosavljevic; for other personnel see radio.
Radiotelevision Beograd: Takovska 10. **Te:** 342001. **Telex:** 11884.
Stations (System B) (ch2-12), System H (ch21-68) **ChE.**

Serbia 1st Prgr.	ch	kW (ERP)	2nd Prgr.	ch	kW (ERP)
Kopaonik	3	50/10	Avala	22	1000/200
Jastrebac	5	100/20	Deli Jovan	23	10/2
Avala	6	100/20	Crveni Cot	24	1000/200
Deli Jovan	6	1/0.2	Tupiznica	25	250/50
Tornik	7	1/0.2	Jastrebac	27	1000/200
Ovcar	8	100/20	Crni Vrh	35	350/70
B. Kobila	8	8/1.6	Kopaonik	41	350/70
Crveni Cot	10	100/20	Ovcar	42	250/50
Tupiznica	10	35/7	B. Kobila	49	10/2
Crni Vrh	11	35/7	Tornik	53	10/2
Pirot	50	9.4/1.9	+44 repeaters.		
+6 repeaters.					

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12 Korolyov St.,
Moscow
USSR

Telex 7-131, 7-132
Telephone: 181 78 98

Vojvodina		kW
1st Prgr.	**ch**	**(ERP)**
Subotica	5	35/7
TV-Novi Sad:		
Iriski Venac	41	1000/100
Subotica	43	1000/100
Kosovo		
1st Prgr.		
Goles	44	250/50
2nd Prgr.		
Goles	7	35/7
+9 repeaters.		
Croatia		
Labistica	4	15/3
Psunj	4	100/20
Kalnik	5	10/2
Pljesevića	5	30/6
Srdj	6	37/7.4
B. Manastir	8	25/5
Celevac	8	50/10
Sljeme	9	100/20
Biokovo	9	100/20
Ucka	11	100/10
2nd Prgr.		
Sljeme	28	100/20
Ucka	29	1000/100
Belje	38	250/50
+43 repeaters.		
Slovenia		
Kum	3	50/10
Krvavec I	5	50/10
Nanos	6	35/7
Plesivec	6	35/7
Pohorje	11	10/2

2nd Prgr. ch		**kW (ERP)**
Koper-Nanos	27	400/80
Plesivec	49	100/10
Pohorje	56	100/10
+103 repeaters.		
Bosnia/Herzegovina		
Bjelasnica	5	6/1.2
Kozara	6	18/3.6
Velez	7	10/2
Hum	8	6/1.2
Pljesevića	10	18/3.6
Vlas	11	100/20
2nd Prgr.		
Hum	52	4/0.8
+77 repeaters.		
Macedonia		
Pelister	4	10/2
Crni Vrh	6	50/10
Mali Vlaj	9	3/0.6
Turtel	11	2.5/0.5
2nd Prgr.		
Crni Vrh	30	20/4
+28 repeaters.		
Montenegro		
Lovćen	8	67/13.5
Bjelasica	12	16.8/3.36
2nd Prgr.		
Lovćen	31	800/160
Bjelastica	37	1200/240
+42 repeaters.		

D.Prgr. 1st Prgr: Mon-Fri 0810-1110, 1530-2220(or 2320); Sat 0930-1230, 1450-2350; Sun 0805-2230. The above timings are given with regard to the general prgr. scheme. Television sts (Beograd, Zagreb, Ljubljana, Sarajevo, Skopje, Titograd) combine their regional prgrs and have their own schemes. Most of their prgrs are broadcast over the joint JRT network.
Test trs: W one h before trs.
2nd Prgr: Mon-Fri 1825-2200 (or 2315); Sat 1825-2305; Sun 1725-2250. PAL-Colour used on both prgrs.
TV Novi Sad/Vojvodina: W 1545-1900 exc. Sat; Sun 1600-2130. **TV Pristina/Kosovo:** W 1700-1900 exc. Mon; Sat 1700-2130; Sun 0800-1100, 17000-1930. **TV Koper/Slovenia:** D 1845-2130 in Italian.
TV-sets: 3.071.620 – **ALF:** Din. 960,-.

AFRICA

AFARS AND ISSAS

FRANCE REGIONS 3 (FR3)

Addr: B.P. 97, Djibouti.
L.P: See radio.
Stations: (System K'): Djibouti chK5 0.05kW H.
D.Prgr: 1500 (Sun) 1230)-2030 – **TV-sets:** 3.500

ALGERIA

TELEVISION ALGERIE (Gov.)

Addr: 21 Blvd. des Martyrs, Alger.
L.P: See radio.

Stations (System B): Pol: H. **Colour:** PAL system used.

	ch	kW(ERP)		ch	kW(ERP)
M. Cid	5	150/30	Chrea	9	120/24
Ain-n-Sour	5	100/20	Tessala	10	150/30
Akfadou	6	100/20	Alger	11	20/4
Constantine	7	100/20	+33 low power st's.		

D.Prgrs: 1500-2300(Thurs/Sat/Sun 1300-2400).
TV-sets: 450.000 – **ALF:** DA 85,-.

ANGOLA

RADIOTELEVISÃO ANGOLANA

A TV station is operating since late 1975 (Dir: Vierra). No further details available.

CANARY ISLANDS

TELEVISION ESPAÑOLA EN CANARIAS

Addr: Valentin Saenz 4, pisos 5 and 6, Santa Cruz de Tenerife. **Te:** 244187.
L.P: Dir: César Alonso.

Stations (System B): Santa Cruz de Tenerife chE3 350/70kW H, Fuencaliente chE7 4.7/0.9 H, Poso de las Nieves ch10 4.25/0.8 H, Las Palmas(relay) chE6 390/78W H.
D.Prgr: 1400-1530, 1815-2400.

CENTRAL AFRICAN REP.

A TV station is operating since March 1st, 1974. Further details not received – **TV-sets:** 200.

CONGO (People's Rep.)

RADIODIFFUSION TELEVISION CONGOLAISE

Addr: B.P. 2241, Brazzaville.
Station (System D): ch7 2kW H.
D.Prgr: 1730-2100 – **TV-sets:** 3.000.

EGYPT

UAR BROADCASTING CORPORATION (Gov.)

Addr: TV Bldg, Cornish Rd, Cairo. **Te:** 812070. **Cable:** Kahivision.
Stations (System B)

	ch	kW (ERP)	Pol		ch	kW (ERP)	Pol
Port Said	3	10/2	H	Mansoura	8	20/4	H
Cairo I	5	100/20	H	Edfo	8	20/4	H
Nagh Hammadi	5	5/1	H	Cairo III	9	24/4.8	H
				Alexandria	9	24/4.8	H
Isna	5	5/1	H	El Minya	9	2/0.4	V
Aswan	5	13.5/2.7	H	Quassassin	9	5/1	H
Alexandria I	6	40/8	H	Suez	9	10/2	H
Ismailia	6	3/0.6	H	Quena	10	135/27	H
Ben Ali	6	8/1.6	V	Tanta	10	50/10	H
Damietta	6	10/2	H	Assyut I	10	5/1	H
Maghagha	6	24/4.8	H	Kom Ombo	10	25/5	H
Tanta	7	24/4.8	H	Alexandria II	11	24/4.8	H
Sohag	7	50/10	H	Beni Suef	11	80/16	H
El Qusiya	7	24/4.8	H	Luxor	11	5/1	V

1st Prgr: 1500(Fri 0900-2200); **2nd Prgr:** (Cairó II, Alexandria II, Tanta): 1500-2200.
TV-sets: 1.000.000 – **ALF:** £ (Egypt) 6/0/0.

ETHIOPIA

ETHIOPIAN TELEVISION SERVICE (Gov.)

Addr: P.O. Box 1020, Addis Ababa. **Te:** 16701. **Cable:** Ethiotv.
Station (System B): chE7 0.5/0.1kW.
D.Prgr: 1600(Sat 1430)-2000. For schools: W 0600-1400.
TV-sets: 20.500 – **ALF:** Eth. $50.00 (Studios 2).

GABON

RADIODIFFUSION GABONAISE (Gov.)

Addr: B.P. 150, Libréville. **Te:** 32784. **Cable:** Radiotelegabon.
L.P: Dir.Gen: A. Yangari. Dir. TV Sce: P.M. Ndong. For other personnel: see radio.
Stations (System K): Libréville E3 2kW H, Port Gentil E10 0.1kW H, Moanda 1kW(relay)+relay st's of 0.1kW at: Lam-

barène, Konlamoutu, Lastourville, Makokon; also at **Franceville** (0.01kW).
D.Prgr: chE3 1800-2115, chE10 1800-2100 (relay Libréville) – **TV-sets:** 8.500.

GHANA

GHANA BROADCASTING CORPORATION

Addr: P.O. Box 1633, Accra.
L.P: Dir: Sam Bannerman, Head of Prod: D. Ghartey Tagoe.
Stations (System B 625 lines): Kissi chE2 15/3kW H, Jamasi chE3 15/3kW H. Ajankote chE4 15/3kW H, Tamale chE5 1.5/0.3kW H +4 low power repeaters.
D.Prgr: 1745/2230(Sat 1655-2245, Sun 1600-2230).
For schools: 0930-1130(Mon-Fri). (Planned: st. at Bolgatanga).
TV-sets: 35.000 – **ALF:** NC 10.00.

IVORY COAST

TELEVISION IVORIENNE (Gov.)

Addr: B.P. 8883, Abidjan. **Te:** 349206. **Cable:** RTI/TV.
L.P: Mgr: G. Tanoh. Dir.Prgrs: B. Soumahoro. Dir.Tec: D. Coulibaly.
Stations (System K' 625 lines): Abidjan chK'8 10/2.5kW H, Boualle chK'9 10/2.5kW V. Man chK'7 10/2.5kW H, Koun chK'4 10/2.5kW. Niangbo chK'8 10/2.5kW. Tiéma chK'4 10/2.5kW H. **D.Prgr:** 1230-1330, 1900-2200.
Colour: SECAM – **TV-sets:** 101.000.

KENYA

VOICE OF KENYA TELEVISION (Gov, Comm.)

Addr: Box 30456, Nairobi. **Te:** 34567.
L.P: Contr. of Prgrs: L. Kabiru. Asst. Chief Eng: P. Ngugi. For other personnel: see radio.
Stations (System B): chE4 (Nairobi) 30/6kW H (Relay st's: Timboroa (Kisumu) chE2 15/3kW, Nyeri chE10 0.05kW, Mazeras chE6 15/3kW – **D.Prgr:** 1430-2000.
TV-sets: 50.000 – **ALF:** £3.00.

LESOTHO

Lesotho National Broadcasting Service will operate a station from 1977/78.

LIBERIA

LIBERIAN BROADCASTING CORPORATION (Gov. Comm.)

Addr: P.O. Box 594, Monrovia. **Te:** 22011.
L.P: See radio.
Station: ELTV chE6 2.5/0.45kW: Translators: Bomi Hills and Buchanan chE10 10kW. **D.Prgr:** 1830-2300.
TV-sets: 8.900.

LIBYA

PEOPLES REVOLUTION BROADCASTING – TELEVISION (Gov.)

Addr: P.O. Box 333, Tripoli.
L.P: See radio.
Stations: (System B): Tripoli chE6 20/4kW H, Benghazi chE5 10/2kW, V, Derna chE6 5/1kW H, Elmarj chE7 5/kW V, Khoms chE8 5/1kW V, Tobruk chE6 5/1kW V, El Beida chE9 5/1kW H, Musurata chE10 5/1kW H, Yefren chE9 20/4kW H, Agedabia chE11 15/3kW H + 2 low power repeaters.
D.Prgr's: 1700-2230 – **TV sets:** 150.000.

MADEIRA

RADIO TELEVISÃO PORTUGUESA (SARL) (Comm.)

Addr: Rua das Maravilhas 42, Funchal.
Stations: (System B): Madeira chE5 20/4kW H + 3 relay st's.
D.Prgr: 1800 (Sat/Sun 1400)-2300.
TV-sets: 16.000 – **ALF:** Esc. 480.

MALAGASY (Rep.)

TELEVISION MALAGASY (Gov.)

Addr: P.O. Box 442, Tannanarive.
L.P: Dir. of TV: J. Rafdinarivo.
Stations (System D): Antananarivo ch5 0.5kW H (+3 satellites).
D.Prgr: 1600-1900 (exc. Mon) – **TV-sets:** 8.000.

MAURITIUS

MAURITIUS BROADCASTING CORPO. (Comm.)

Addr: Broadcasting House, Forest Side.
L.P: see radio.
Stations: (System B): Malherbes chE4 15/3 H, Port Louis *chE7, Souilac *chE9, Flacq *chE11 – *) Satellites (all 0.4kW ERP) – **D.Prgr:** 0730-1030, 1400-1830.
Colour: SECAM System used.
TV-sets: 40.790 – **ALF:** Rup. 60.

MOROCCO

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)

Addr: 1, rue Al Brihi, Rabat.
L.P: See radio.
Stations (System B). **Pol:** H.

	chM	kW(ERP)		chM	kW(ERP)
Zerhoun	4	180/36	Izeft	7	18/3.6
Zaio	4	18/3.6	Tazerkount	8	180/36
Tarfaya	4	36/7.2	Biougra	8	9/1.8
Boukhouali	5	36/7.2	Tazekka	8	9/1.8
Cap Spartel	5	36/7.2	Touzarine	9	18/3.6
Oukaimeden	6	36/7.2	Tiguelmamine	9	18/3.6
Azougar	6	18/3.6	Casablanca	10	180/45
Rabat	7	180/36	Tetouan	10	18/3.6

+9 low power repeaters.
D.Prgr: 1800-2400; **French:** 1830-2015; **Arabic:** 1800-1830, 2015-2300.
TV-sets: 460.000 – **ALF:** DH 30.00.

NIGER

A school TV service is operating (System K). No further details available.

NIGERIA

NIGERIAN TELEVISION-LAGOS

Addr: Television House, Victoria Island, Private Mail Bag 12005, Lagos. **Te:** 26391. **Cable:** Nivision.
L.P: Dir: S. Olusola. Chief Eng: A. Onyia.
Station (System B): Lagos chE10 40/8kW H, Ibadan chE2 6/1.2kW H.
D.Prgrs: 0900-0930, 1430-1500, 1700-2200.
Ad: 10% of broadc. time.

NIGERIAN TELEVISION-ENUGU

Addr: P.O. Box 350, Enugu. **Te:** 2579.
Station: chE2 60/12kW.

NIGERIAN TELEVISION-KADUNA

Addr: Box 250, Kaduna, No. Nigeria. **Te:** 22294. **Cable:** Radionorth.
L.P: See radio.
Stations: Kaduna chE4 48kW H, Kano chE10 24kW H, Zaria chE4 48kW.
D.Prgr: 1600-2200 (2 studios in Kaduna).

NIGERIAN TELEVISION-IBADAN

Addr: P.O. Box 1460, Ibadan. **Te:** 24381.
L.P: See radio.
Stations (System B): Ibadan chE4 60/12kW H, Abafon (Lagos) chE3 60/12kW H (relays Ibadan).
D.Prgr: 1000-1030, 1200-1300, 1630-2200.
Further st's operating in Benin City, Jos, Sokoto and Port Harcourt.
TV-sets: 105.000 – **ALF:** N. 5.00 – **Colour:** PAL system.

REUNION

FRANCE REGIONS 3 (FR3)

Addr: FR3 – 97405 St. Denis.
L.P: See radio.
Stations (System K'): St. Denis chK8 0.05kW (+13 satellites). **D.Prgr:** 1430-1830.
TV-sets: 36.700 – **ALF:** N.Frs. 140,-.

RHODESIA

RHODESIA TELEVISION PTY LTD. (Comm.)

Addr: P.O. Box HG 200, Highlands, Salisbury. **Te:** 46591.
Cable: TeeVee. **L.P:** Chmn: D.T.M. Williams. Dir.Gen: H.G. Ward.
Stations: (System B): Salisbury chE4 20/4kW, Bulawayo chE3 3.5/0.7kW, Gwelo chE2 20/4kW, Umtali chE5 20/2kW, Gatooma chE6 5/0.5kW.
D.Prgr: W 1500-2100, Sun 1100-2100.
TV-sets: 68.700 – **ALF:** $15.00.

SENEGAL

SENEGAL TELEVISION (Gov, Educ.)

Addr: Project-Pilote, Centre for Mass Inf. and Educ. (UNESCO), B.P. 2375, Dakar.
Station (System K'): Dakar chK'7 0.05kW H.
D.Prgrs: Mon, Tues, Wed, Thurs 1700-1730. Twice a month Fri 2100-2215 – **TV-sets:** 2.000.

SIERRA LEONE

SIERRA LEONE TELEVISION (Gov., Comm.)

Addr: Private Mailbag, Freetown. **Te:** 40597.
Station (System B): chE2 0.4/0.1kW H.
D.Prgr: W 1830-2300, Sun 1500-2300.
TV-sets: 8.500 – **ALF:** Leones 10,-.

SOMALIA

TV Station planned in Mogadiscio with 2 tr's of 1 and 5kW.

SOUTH AFRICA

SABC-TELEVISION

The SABC has adopted the PAL colour TV system using CCIR system I on bands III/IV/V using ch4-13 (174-254MHz) and 21-68 (470-854MHz), ch12 is not used. Sound/vision spacing is +6MHz.

Stations: 12.5kW (100kW ERP).

Location	ch	Location	ch
Alverstone	4	Port Shepstone	8
Kimberley	4	Bloemfontein	9
George	5	East London	9
Pretoria	5	Johannesburg	13
Theunissen	5	Davel	22
Port Elizabeth	7	Glencoe/Ft. Mistake	27
Villiersdorp	7	Middelburg (Tvl)	41
Welverdiend	7	Hartbeesfontein	45
Constantiaberg	8	Kroonstad	57

+16 low power relay st's.

D.Prgrs: W 1600(Sat 1300)-2100; Sun 1600-2000(approx.).
English: 1600-1830(Mon/Wed/Fri), 1830-2100(Tues/Thurs/Sat); **Afrikaans:** 1600-1830(Tues/Thurs/Sat), 1830-2100 (Mon/Wed/Fri); Sun 1600-1830 in **English** or **Afrikaans,** 1830-2000 in **Afrikaans** or **English.**
Planned: Stations at Piketberg, Potgietersrust, Nelspruit, Rustenburg, Oudtshoorn, Volksrust, Grahamstown, Bethlehem and Zeerust.
TV-sets: 600.000 – **ALF:** R 36.00.

SUDAN

SUDAN TELEVISION SERVICE (Gov, Comm.)

Addr: P.O. Box 1094, Omdurman. **Te:** 52100. **Cable:** Information-TV.
Stations (System B): Omdurman chE5 0.6/0.15kW H, Wad Medani chE7 10/1kW.
D.Prgr: 1630-2030 – **Planned:** Stations at Atbarah and Port Sudan. **TV-sets:** 70.000.

TANZANIA

Zanzibar Television

A colour TV-Service. began operating in 1973.
No details available.

TUNISIA

RADIODIFFUSION TELEVISION TUNISIENNE (Gov.)

Addr: 71, Ave de la Liberté, Tunis. **Te:** 287.300.

Stations (System B): *) Italian prgr.

	ch	kW(ERP)/Pol			ch	kW(ERP)/Pol	
*Boukornine	5	12/0.5	V	Beja	9	32/12.5	H
Bizerte	6	2.5/0.5	H	Gafsa	10	400/80	H
Kasserine	6	310/34	H	Zaghouan	11	280/56	H
Boukornine	7	2.5/0.5	V	Ain Draham	12	32/19	H
Sfax	8	365/40	H	Zarzis	12	180/36	H

D.Prgr (Arabic): 1800-2130.
TV-sets: 191.043 – **ALF:** Dinars 5.00.

UGANDA

UGANDA TELEVISION

Operated by Ministry of Information.
Addr: P.O. Box 4260, Kampala. **Te:** 54461. **Cable:** Uteevee.
Stations (System B): Kampala chE5, Lira chE7, Masaka chE8, Mbale chE8, Mbarara chE10, Soroti chE10 (all 55kW (ERP) H) (2 studios).
D.Prgr: 1500(Sat/Sun 1300)-2000 +2½ hrs. Educational Prgrs during school term (D exc. Sat/Sun).
TV-sets: 71.000 (+400 colour sets) – **ALF:** East African sh: 5/-.

UPPER VOLTA

RADIFF.-TELEVISION VOLTAIQUE (Gov.)

Addr: B.P. 511, Ouagadougou. **Te:** 4444.
Station (System D): Ouagadougou ch6 0.75/0.15kW V.
D.Prgr: Sun, Tues, Thurs 1900-2200.
Projected: Koudougou 1kW H, Bobodioulasso 1kW H.
TV-sets: 1.150.

ZAIRE (Rep. of)

ZAIRE TELEVISION (Gov, Comm.)

Addr: See radio – **Station** (System B): Lubumbashi & Kinshasa (ch's unknown). **D.Prgr:** 1800-2100.
TV-sets: 7.200.

ZAMBIA

TELEVISION-ZAMBIA (Gov.)

Addr: Broadc. House, P.O. Box RW 15, Lusaka. **Te:** 72986; P.O. Box 1100, Kitwe. **Te:** 3507. **Cable:** Broadcasts TV.
L.P: Dir: A. Mvula. Contr. TV: Neb Jere.
Stations (System B): Lusaka chE3 0.8/0.16kW H, Kitwe chE4 40/8kW H, Kabwe chE2 0.8/0.16kW.
D.Prgrs: 1500-2100 – **TV-sets:** 22.600 – **ALF:** ₤ 5/0/0.

NEAR– AND MIDDLE EAST

BAHRAIN

BAHRAIN TELEVISION (Gov.)

Addr: Ministry of Information, P.O. Box 253, Manama. **Te:** 68811.
Station: Isa Town chE4 15/3kW.
D.Prgr: 1500(Fri 1300)-2015.
TV-sets: 31.000.

CYPRUS

CYPRUS BROADCASTING CORPORATION

Addr: P.O. Box 4824, Nicosia. **Cable:** Broadcasts. **Te:** 22231. **Telex:** 2333.
L.P: Head of TV Prgr: G. Mitsides. For other personnel: See radio.
Stations: Mt. Olympus chE6 40/8kW V, Kakopetria chE11 15/3W H, Platres chE35 100/20W H, Tsada chE38 1/0.2kW H – **D.Prgr:** 1630-2045.
TV-sets: 90.000 – **ALF:** £8.00.

Turkish Occupied Territory

R. BAYRAK TELEVISION

Addr. & L.P: See radio.
Station: Mt. Sina Oros chE8 80/40kW V.
D.Prgrs: 1600-2100.

IRAN

NATIONAL IRANIAN RADIO & TELEVISION (NIRTV)

Addr: P.O. Box 33-200, Tehran. **Te:** 8961. **Cable:** Telmel. **Telex:** 2792.
L.P: Dir.Gen: R. Ghotbi. Dep.Dir. for Broadc: M. Jafarian. Dir.TV Netw.Prgrs: A. Arbabi. Dir.Tec: C. Hedayat. Tech.Advisor to Dir.Gen: E. Kianpour.

Stations (System B): chE.

	ch	kW (ERP)		ch	kW (ERP)
Tehran I	7	20/4	Shiraz I	8	20/4
Tehran (2nd prgr)	9	20/4	Surdar	9	20/4
Surdar	5	10/2	Bostan	9	2/0.4
Rezaieh	5	20/4	Tabriz	10	2/0.4
Abadan II	5	20/4	Shiraz II	10	2/0.4
Abadan	7	20/4	Ahwaz	11	2/0.4
Kermanshah	7	20/4	Rasht	11	10/2.5
Bandar-Abbas	8	20/4	Mashhad I	11	2/0.4
			Mashhad II	9	—

+290 repeater sts not mentioned.

Projected: Rasht (2nd prgr.) ch7, Isfahan (2nd) ch5, Boushehr ch3, Ilam ch4.
D.Prgrs. Generally: 1030-1230, 1400-2100(Holidays 0730-2030).
Colour: SECAM system adopted.
TV-sets: 1:720.000.

IRAQ

BAGHDAD TELEVISION (Gov, Limited Comm.)

Addr: See radio.
Stations (System B)

Location	chE	kW/Pol	Location	chE	kW/Pol
Misan	*5	180H	Kirkuk	8	160H
Muthanna	*6	180V	Basrah	*9	400V
Kirkuk	6	160H	Baghdad	*9	160H
Baghdad	*7	160H	Kirkuk	10	146H
Mosul	7	146V	Misan	*11	180H
Muthanna	*8	180V			

D.Prgrs: 1400-2100 – **Planned St:** at Um-Qasir.
Colour: SECAM used by sts marked *.
TV-sets: 355.000.

ISRAEL

ISRAEL BROADCASTING AUTHORITY

Addr: P.O. Box 7139, Jerusalem. **Te:** 521111. **Telex:** 25301.
L.P: See radio.

INSTRUCTIONAL TELEVISION CENTRE (Educ.)

Addr: 14 Klausner Str, Tel Aviv. **Te:** 414155. **Cable:** Telemudit.
L.P: Gen.Mgr: Y. Lorberbaum. Dir. of Eng: A. Kaplan. Dir. of Prgrs: Mrs. Y. Prener.

Stations (Systems B and G)

	chE	kW (ERP)		chE	kW (ERP)
Acre	5	20/4	Grofit	10	40/8
M. Ramon	5	5/1	Haifa	10	100/20
Safed	6	1/0.2	Beersheba	11	100/20
Eilat	7	1/0.2	Acre	24	1.5/0.15
K. Hayarden	7	1/0.2	Tel Aviv	27	10/2
Eitanim	8	200/40	Haifa	46	200/20
Manara	8	1/0.2	Jerusalem	56	1.5/0.3
Arad	9	10/2	+25 low power satellites.		

D.Prgr. Educational: 0600-1530(Fri 1300)(Sat: no trs).
IBA: 1530-2130(Fri 1300-1400, 1600-2130). **Arabic:** 1630-1800; other times in Hebrew.
TV-sets: 580.000 – **ALF:** Isr. £225,-.

JORDAN

JORDAN TELEVISION CORPORATION (JTV)

Addr: P.O. Box 1041, Amman. **Te:** 38760. **Cable:** Television. **Telex:** 1244.
L.P: Dir.Gen: M. Kamal. Dir. of Engineering: T. Nasseredin.
Stations (System B): Amman chE3 100/20kW H, ch6 100/20kW H, +2 low power sts.
D.Prgr: chE3: 1600-2200. Educ. Prgrs: 0800-1100.
Colour: PAL system used.
TV-sets: 130.000(incl. 5.000 colour sets) – **ALF:** JD 6,- (4 studios).

KUWAIT

TELEVISION OF KUWAIT (Gov.)

Addr: P.O. Box 621, Kuwait. **Te:** 439041. **Cable:** Kuwait TV.
L.P: Asst. Under Secr: M. Sansousi. Chief Eng: Y. Dashty. For other personnel: See radio.
Stations (System B): Mutlaa chE 10kW H, Rawdatam chE6 2kW H, Failaka chE8 and E5(both 20kW) H.
D.Prgr: 0600-1000, 1400-2100.
Colour: Full time, PAL system used.
TV-sets: 540.000(incl. 220.000 color sets).

LEBANON

COMPAGNIE LIBANAISE DE TELEVISION (Comm.)

Addr: B.P. 4848, Beirut. No details available.

TELE-ORIENT (Comm.)

Addr: Box 11-5054, Beirut.
No details available.

OMAN (Sultanate of)

OMAN COLOUR TELEVISION (Gov.)

Addr. & L.P: See radio.
Stations (Systems B&G): Qurum ch6 120/24kW H, Salala ch10 300/60kW V + 4 low power satellites – **D.Prgr:** 1530-1930.
Projected: Midway ch8 140kW V before the end of 1976 and 13 other st's throughout the country.
TV-sets: 15.000 – **Colour:** PAL system adopted.

QATAR

QATAR TELEVISION SERVICE

Addr: Min. of Information, P.O. Box 1836, Doha.
L.P: Dir. TV: Y. Muzaffe. Head of Engineering: M. Khan. Transmitter Eng: P. Quadri. For other personnel: see radio.
Station (System B): Doha chE9 200/40kW (ERP), chE11 (repeater) 0.06kW.
D.Prgr: 1500-2030 (Colour: PAL system).
TV-sets: 34.000.

SAUDI ARABIA

MINISTRY OF INFORMATION (Gov.)

Addr: Riyadh.
L.P: See radio.
Stations (System B): Damman chE6 25/5kW, Jeddah chE10 10/2kW H, Riyadh chE5 10/2kW H, Mecca chE7 10/2kW H, Taif chE8 10/2kW H, Medina chE5 25/5kW H, Quassim chE8 40/8kW.
D.Prgr: 6h daily(approx).
Planned: Colour using SECAM system.

ARAMCO-TV(Non-Comm, Private Co.)

Addr: Box 96, Dhahran. **Te:** 6767. **Cable:** Aramco.
L.P: Mgr.Communic.Dept: M.M. Orseth.
Station (System M): chA2 Dhahran 12/6kW.
D.Prgr: 1430-1830.
TV-sets: 130.000.

SYRIAN ARAB REP.

SYRIAN ARAB TELEVISION (Gov, Comm.)

Addr: Ommayyad Square, Damascus. **Te:** 12000.
L.P: Dir: A. Hulwani.

Stations (System B).

Location	chE	kW (ERP)	Location	chE	kW (ERP)
Hassake	4	100/20	Homs	7	30/6
Damascus	5	150/30	Tabqua	8	150/30
Aleppo	5	30/6	Slenfe	9	180/36
Deir-el-Zor	6	200/40	+1 satellite.		

D.Prgr: 1600-2200.
TV-sets: 230.000 – ALF: S£50,-.

TURKEY

TURKISH RADIO TELEVISION CORPORATION

Addr: TRT-TV Department, Nevzat Tandogan Caddesi 2, Kavaklidere-Ankara.
L.P: Dir. TV Dept: F. Isikci. Dir. Ankara TV: T. Gönenc. Dir.Tec: T. Gürel.

Stations

Location	chE	kW (ERP)	Location	chE	kW (ERP)
Ankara	5	5/1	Diyarbakir	9	100/20
Istanbul	5	100/20	Edirne	9	30/6
Adanta	6	30/6	Trabzon	9	30/6
Elmadag	6	10/2	Gaziantep	10	30/6
Eskisehir	7	100/20	Izmir	10	100/20
Bolu	8	6/1.2			

+26 low power repeaters not mentioned.

D.Prgr: 1600(Sat/Sun 1300)-2130.
TV-sets: 455.000 – **ALF:** TL 100-250 (5 studios).

UNITED ARAB EMIRATES

UNITED ARAB EMIRATES TELEVISION SERVICE (Gov.)

Addr: P.O. Box 637, Abu-Dhabi.
L.P: Dir: A. Alnowais. Chief Eng: A. Kandeel. Contr. of Prgrs: H. Badr-eldin.
Stations (System B): Abu-Dhabi chE5 100/10kW, Al-Ain chE7 2/1kW, Dubai chE2 500/100kW+3 low power repeaters at Abu-Dhabi(chE11).
D.Prgr: 1430-2100.
Colour: PAL system used.
TV-sets: 26.000.

YEMEN ARAB REPUBLIC

A television station is operating since September 1975. No further information available.

YEMEN
(People's Democratic Rep. of)

PDR OF YEMEN TELEVISION SERVICE (Gov, Comm.)

Addr: Box 1264, Aden.
Stations (System B): Al-Ainah chE4 0.4kW H, Al-Bargh chE10 0.8kW H, Ga'ar(Abyan) chE7 0.2kW H+2 satellites(Crater chE8 and Little Aden chE5).
D.Prgr: 1600-2000.
TV-sets: 31.500 – **ALF:** DY Dinars 3,- (2 studios).

ASIA
(South– & East Asia)

BANGLADESH (People's Rep. of)

BANGLADESH TELEVISION (Gov.)

Addr: Television House, Rampura, Dacca.
L.P: Man.Dir: J. Chaudhury. Dir.Tec: A.M.M. A'abad.
Stations (System B): Dacca chE6 14kW, Rajshahi chE8 6kW, Chittagong chE? 10kW.
D.Prgr: 1200-1710.
TV-sets: 50.000 – **ALF:** Taka 50,- (for household) or Taka 75,- (for comm. users).

BRUNEI

RADIO TELEVISION BRUNEI (Gov.)

Addr: Bandar Seri Begawan, Brunei. **Te:** 3111. **Cable:** Broadcasts. **Telex:** 228.
L.P: Contr: J.B. Millar, OBE. Asst.Contr: Md. S.A. Kadir. Engineering: W.A. Jackson, MBE.
Station (System B): Brunei ch5 10kW H.
D.Prgrs: 0930-1400.
TV-sets: 12.500(incl. 2.100 colour sets).

CAMBODIA

TV-STATION OF THE NUFC

Addr: 28, Ave. Preah Mohaksatryany Kossomak, Phnom Penh.
Stations (System M): chA8 40/8kW H, Bokor chA11 0.8/0.2kW(rel).
No recent details.

CHINA (People's Rep. of)

Standard: 625 line, FM sound, Pol=H, bandwidth 8MHz, 25 frames per second. **City:** Anchan ch"X" (57.75MHz/64.25MHz) – Canton, ch"X" 1kW – Changchun ch"X" 1kW – Changsha ch"X" – Chengu ch"X" – Chiamussu chR1 – Chungking ch unknown(but active) – Foochow chR5 – Fushun chR1 – Hangchow(rel. Shanghai) ch"X" – Harbin chR4 50W – Hofei chR4 – Kirin chR1 – Kweiyang chR5 – Lanchow chR1 – Nanking chR1 – Peking I ch"X" 5kW – Peking II chR3 – Shanghai chR5 500W – Shengyang chR5 – Sian chR1 – Soochow ch"X" – Taiyuan ch"X" – Tangshan chR4– Tientsin chR3 – Tsinan chR3 –

Tsingtao ch unknown(but active) – Tsitsihar ch"X" – Wuhan chR5 – Wuhsi, Kiangsu(rel. Shanghai) ch"X".
More than 37 main TV stations and 123 satellites transmit the Central TV Prgr. from Peking to 23 out of the country's 29 provinces. A st. in Peking is transmitting test prgrs in both PAL and SECAM but a definite system has not been adopted.

TAIWAN

CHINA TELEVISION COMPANY (Comm.)

Addr: 53, 3rd Section, Jen Ai Road, Taipei.
Stations: BEF21 chA9 180/36kW (No. Taiwan), BEF22 chA10 150/30kW (Ce. Taiwan), BEF23 chA9 180/36kW (So. Taiwan).
D.Prgrs: W 0300-0500, 0730-1415; Sat 0250-1415; Sun 0150-1415.
Colour TV: 83 hrs. per week.

CHINESE TELEVISION SERVICE

Addr: 100 Kuang Fu South Road, Taipei.
L.P: Pres: Y.H. Shieh. Dir.Tec: S.H. Hu.
Stations: BET31 chA11 180/36kW (No. Taiwan), BET32 chA8 150/30kW (Ce. Taiwan), BET33 chA11 180/36kW (So. Taiwan).
D.Prgr: W 0540-0900, 1150-1330, Sun 0540-1610, 1730-2350.

TAIWAN TELEVISION ENTERPRISE, Ltd. (Comm.)

Addr: No. 10, Pa Te Rd, Section 3, Taipei. **Te:** 7719171.
Cable: Television. **L.P:** Pres: Carl Liu.
Stations: BET21 chA7 125/50kW (No. Taiwan), BET22 chA12 125/50kW (Ce. Taiwan), BET23 chA7 125/50kW (So. Taiwan), BET24 chA10 1/0.4kW (I-Lan), BET25 chA7 8/2kW (Hua Lien), BET26 chA10 0.9/0.5kW (Taitung) (+ 3 satellites).
D.Prgr: 0400-0500, 1000-1500(Sat/Sun 0400-1500).
Colour TV: 50 hrs. per week. System NTSC used by all companies.
TV-sets: 2.927.416 (incl. 585.006 colour sets).
ALF: US $2.00

DIEGO GARCIA

AF DIEGO GARCIA TELEVISION (AFRTS)

Addr: US Naval Communication Station, Diego Garcia.
L.P: St.Mgr: D. Hager. Dir.Tec: D.D. Shamp.
Station (System M): chA8 0.1kW H.
D.Prgr: 1100-1900(Sat/Sun 0900-2000).
TV-sets: 50.

HONG KONG

TELEVISION BROADCASTS LTD.

Addr: HK-TVB, P.O. Box 100, Kowloon, Hong Kong. **Te:** 360111.
L.P: Mgr: Mrs. Selina Chow.
Stations: Two simultaneous wireless networks (UHF band 4) 625 lines PAL colour system. Jade ch21 10/2kW (Chinese) and Pearl (English) ch25 10/2kW. (4 studios).
D.Prgr: Jade netw. (Chinese): W 0400-1612(Sat 1715); Sun 2330-1630. Pearl netw. (English): Mon-Fri 0100-0200, 0755-1545; Sat 0800-1700, Sun 0730-1600.

COMMERCIAL TELEVISION LTD.

Addr: 9/F, D'Aguilar Place, D'Aguilar St, Hong Kong.
Cable: TV-ADS.
L.P: Man.Dir: G. Ho. Prgr.Man: Mrs. Yvonne Siu. Dir.Tec: W. Cheung.
Station: Kowloon ch29 10/2kW – **D.Prgr:** 0900-1400.

REDIFFUSION TELEVISION LIMITED

Operates two wireless comm. TV sce's on CCIR 625 line PAL System 1.
Addr: TV House 81, Broadcast Drive, Kowloon, Hong Kong. **Te:** 3-374111. **Telex:** HX74680.
L.P: Dir. & Gen.Mgr; S.S.C. Huang. Asst.Gen.Mgr: C.P. Ho. Contr. of Prgrs: C.K. Fai. Dir.Tec: S. Fung.
D.Prgr: Ch1 (Chinese) 2255-1600(Sat/Sun 1700). Ch2 (English) 0000-1600(Sat/Sun 0700-1700).

INDIA

TELEVISION INDIA (TVI-Gov.)

Addr: Doordarshan Kendra, Akashwani Bhawan, Parliament Str, New Delhi 110001. **Te:** 382021. **Cable:** Durdarshan.
L.P: Dir.Gen: P.V. Krishnamurti. Dir.Gen. Adjoint: N.L. Chowla.
Stations (System B): New Delhi chE4 5/1kW H, Bombay chE4 5/1kW, Calcutta chE4 1/0.2kW, Madras chE4, Lucknow chE4 5/1kW H, Nadiad chE7 5/1kW+relay st's at Poona chE5, Amritsar chE7 & Srinagar chE4.
D.Prgr: Delhi 1100-1730, Bombay/Madras 1300-1630(Mon-Fri also 0610-0700), Calcutta 1300-1700, Lucknow 1300(Sun 1100)-1500(or 1515), Nadiad 1330-1430, Poona 1230-1700(Sun also 0300-0530), Amritsar 1330-1700, Srinagar 1230-1630(Sun also 0530-0700).
Projected: Behra Doon, Hyderabad, Kanpur.
TV-sets: 280.000 – **ALF:** Rs 30 (for schools and teleclubs Rs 10,-), Rs 60 for Hotel sets.

INDONESIA

TV REPUBLIK INDONESIA (Gov.)

Addr: Jaiasan Televisi RI, Senayan, Jakarta. **Te:** 582160.
Cable: Telviri.
Stations (System B): Jakarta chE10 60/10kW, chE7 3/0.6kW; Jogyakarta chE9 25/5kW, Bandung chE8 8/1.6kW, Gn. Gantungan chE6 1/0.2kW, Cirebon chE5 50/10kW, Semarang chE5 10/2kW, Medan chE5 60/10kW, Surabaya chE10 10/2kW, Cemarasewu chE7 20/2kW, Balikpapan chE9 3/0.6kW, U. Pandang chE4 7/1kW H, Palembang chE10 35/5kW H.(4 studios in Jakarta, 2 in Jogyakarta, 1 in Medan, Palembang and Ujungpandang).
D.Prgrs. Jakarta: 1100(Sat 1000, Sun 0900)-1600(Sat 1700), Medan: 1200-1500(Sat 1600).
TV-sets: 325.000 – **ALF:** Rp. 6000(or 9000 if over 16 inch screen).

JAPAN

NIPPON HOSO KYOKAI (Corporation, non Gov, non Comm.)

Call: JO–TV–**Pol: H and V–Ch:** J:–**Def:** 525.
Colour-TV: 2095 sts for General netw. and 2063 for Educational netw. – System: NTSC.
1)=General Sce; 2(=Education Sce.

Name	Call	ch	kW	P	Name	Call	ch	kW	P
Wakamatsu	—	1	1	1	Tottori	JOLG	3	1	1
Tokyo	JOAK	1	50	1	Tokushima	JOXK	3	1	1
Kofu	JOKG	1	3	1	Fukuoka	JOLK	3	10	1
Fukuyama	JODP	1	1	1	Nagasaki	JOAG	3	1	1
Yamaguchi	JOUC	1	1	2	Kagoshima	JOHG	3	5	1
Nagasaki	JOAC	1	1	2	Oita	JOIP	3	3	1
Asahikawa	JOCC	2	1	2	Hakodate	JOVK	4	1	1
Kushiro	JOPC	2	1	2	Obihiro	JOOG	4	1	1
Muroran	JOIT	2	1	2	Yamagata	JOJC	4	3	2
Akita	JOUB	2	5	2	Morioka	JOQG	4	3	1
Fukushima	JOFD	2	3	2	Hamamatsu	JODG	4	1	1
Nagano	JONK	2	1	1	Kanazawa	JOJK	4	3	1
Shizuoka	JOPB	2	1	2	Tottori	JOLC	4	1	2
Osaka	JOBK	2	10	1	Rochi	JORK	4	1	1
Matsuyama	JOZB	2	5	2	Sendai	JOHB	5	10	2
Kumamoto	JOGB	2	1	2	Aomori	JOTC	5	5	2
Sasebo	JOAY	2	1	2	Okayama	JOKK	5	10	1
Naha	JOAP	2	5	1	Kagoshima	JOHC	5	5	2
Sapporo	JOIK	3	10	1	Tsuruoka	JOJD	6	1	2
Kitami	JOKP	3	1	1	Matsue	JOTK	6	1	1
Sendai	JOHK	3	10	1	Matsuyama	JOZK	6	5	1
Tsuruoka	JOJP	3	1	1	Kochi	JORB	6	1	2
Wakamatsu	—	3	1	2	Fukuoka	JOLB	6	10	2
Aomori	JOGT	3	5	1	Kitakyushu	JOSK	6	1	1
Tokyo	JOAB	3	50	2	Hiroshima	JOFB	7	10	2
Kofu	JOKC	3	3	2	Fukuyama	JODD	7	1	2
Nagoya	JOCK	3	10	1	Miyako	JOVQ	7	1	1
Fukui	JOFC	3	3	2	Yamagata	JOJG	8	3	1
Toyama	JOIG	3	3	1	Morioka	JOQC	8	3	2
Hiroshima	JOFK	3	10	1	Niigata	JOQK	8	5	1
Okayama	JOKB	3	10	2	Hamamatsu	JODC	8	1	2

Name	Call	ch	kW	P
Kanazawa	JOJB	8	3	2
Sasebo	JOAT	8	1	1
Miyazaki	JOMG	8	1	1
Asahikawa	JOCG	9	1	1
Kushiro	JOPG	9	1	1
Muroran	JOIU	9	1	1
Akita	JOUK	9	5	1
Fukushima	JOFP	9	3	1
Nagano	JONB	9	1	2
Nagoya	JOCB	9	10	2
Shizuoka	JOPK	9	1	1
Fukui	JOFG	9	3	1
Yamaguchi	JOUG	9	1	1
Kumamoto	JOGK	9	1	1
Yaeyama	—	9	1	1
Hakodate	JOVB	10	1	2
Toyama	JOIC	10	3	2
Sapporo	JOIB	12	10	2
Obihiro	JOOC	12	1	2
Kitami	JOKD	12	1	2
Niigata	JOQB	12	5	2
Osaka	JOBB	12	10	2
Matsue	JOTB	12	1	2
Kitakyushu	JOSB	12	1	2
Miyazaki	JOMC	12	1	2
Oita	JOID	12	3	2
Naha	JOAD	12	5	2
Kobe	JOPP	28	10	1
Otu	JOQP	28	1	1
Tsu	JONP	31	5	1
Wkayama	JORP	32	1	1
Kyoto	JOOK	32	10	1
Takamatsu	JOHP	37	10	1
Tokushima	JOXB	38	10	2
Saga	JOSP	38	5	1
Simonoseki	—	39	1	1
Takamatsu	JOHD	39	10	2
Gifu	JOOP	39	5	1
Nishisanuki	—	40	3	2
Saga	JOSD	40	5	2
Shimonoseki	—	41	1	2
Nishisanuki	—	44	3	1
Nara	JOUP	51	1	1

+4443 st's below 1kW not mentioned (as of April 1976).

D.Prgr: Gen. TV: 2100-1500. **Educ. TV:** 2100-1500.
Colour TV: Gen.TV and Educ.TV: 24 hrs 24 min's (daily).
TV-sets: 26.427.000 (incl. 21.894.000 colour sets).
ALF: B and W.TV: 5040 Yen; Colour TV: 8520 Yen.

PRIVATELY OWNED COMMERCIAL TV-STATIONS

Call: JO-TV chJ – All st's with colour facilities (System M & colour system NTSC) – **D.Prgr:** General (approx.) W 23.00-24.00 or from 02.00-05.00, 08.00-15.00; Sun approx. 23.00 (or 00.00)-15.00. *(ERP).

	Call	ch	kW	Name
1)	HR	1	10	Hokkaido Broadc. Co. Sapporo
2)		1	10	Tokai Television Broadc. Co, Nagoya
3)	1R	1	10	Tohoku Broadc. Co, Sendai
4)	LR	1	3	Kita-Nihon Broadc. Co, Toyama
5)	1F	1	10	Kyushu Asahi Broadc. Co, Fukuoka: W 21.50-15.40 (or 16.20)
6)	CF	1	5	R. Minami-Nihon Broadc. Co, Kagoshima
7)	JR	1	1	Shikoku Broadc. Co, Tokushima
8)	GR	1	5	R. Aomori Broadc. Co, Aomori: 21.45-14.00(Sat 16.30)
9)	JX	1	1	Nihon-Kai Telecasting Co, Tottori
10)	AX	4	50	Nippon TV-Network Corpo, Tokyo: 21.40-15.30
11)	FR	4	10	RKB Mainichi Broadc. Co, Fukuoka
12)	OR	4	*100	MBS Mainichi Broadc. System, Oasaka: 2150-1555
13)	ER	4	10	R. Chugoku Broadc. Co, Hiroshima
14)	AR	5	10	Chubu Nippon Broadc. Co, Nagoya
15)	DR	5	5	Broad. System of Niigata, Niigata
16)	KX	5	10	Sapporo TV Broadc. Co, Sapporo
17)	JF	5	3	Yamanashi Broad. System, Kofu: 22.00-15.00
18)	GF	5	3	Oita Broadc. Sce, Oita
19)	UR	5	6	Nagasaki Broadc. Co, Nagasaki: 2200-1500(Sat 1530)
20)	DF	6	3	Iwate Broadc. Co, Morioka
21)	KR	6	*350	Tokyo Broadc. System 2155-1500
22)	NR	6	10	Asahi Broad. Corp, Osaka
23)	MR	6	3	Hokuriku Broadc. Co, Kanazawa
24)	DX	8	10	Kansai Telecasting Corp, Osaka
25)	CX	8	50	Fuji Telecasting Co, Tokyo
26)	ZR	8	1	R. Kochi Broadc. Co, Kochi
26a)	OF	8	5	Okinawa Television Co, Naha: 21.00-15.00
27)	KF	9	10	Nishi-Nippon Broadc. Co, Takamatsu
28)	AF	10	*23	Nankai Broadc. Co, Matsuyama: 21.45-15.30
29)	EF	10	3	Yamagata Broadc. Co, Yamagata
30)	NF	10	1	Miyazaki Broadc. Co, Miyazaki
31)	IX	10	10	Yomiuri Telecasting Corp, Osaka: 21.00-15.00
19)	MF	10	12	Sasebo: 2200-1500(Sat 1530)
32)	HF	10	1	Broadc. System of San In, Yonago
33)	EX	10	*370	NET TV Netw, Tokyo: 2145-1630
34)	HX	10	1	Nishi Nippon TV Corp, Kita Kyushu
34a)	RR	10	5	Ryukyu Broadc. Co, Naha: 21.20-15.20
35)	YR	11	10	Sanyo Broadc. Co, Okayama
36)	TR	11	5	Akita Broadc. System, Akita
37)	PR	11	3	Fukui Broadc. Co, Fukui
38)	SR	11	1	Shinetsu Broadc. Co, Nagano: 21.50-15.10
39)	PF	11	1	Yamaguchi Broadc. Co, Tokyuama
40)	VR	11	10	Shizuoka Broadc. System, Shizuoka 2135-1700(Sun 1530)
41)	BF	11	1	Kumamoto Broadc. Co, Kumamoto
42)	PX	11	3	Fukushima TV Co.
43)	LX	11	10	Nagoya Broadc. Co, Nagoya: 22.00-15.00
44)	NX	12	10	Hiroshima TV Broadc. Co, Hiroshima
45)	TX	12	*370	Tokyo Channel 12 Ltd, Tokyo: 0000(Sat/Sun 0730)-1630.
46)	OX	12	10	Sendai Broadc. Co, Sendai

UHF Commercial Television Stations

Call: JO – TV. All st's with colour facilities (System M).
D.Prgr: Approx. 22.00-15.00 (generally).

47)	BM	27	30	Hokkaido Bunka Broadc. Co, Sapporo
48)	BL	30		Biwako Broadc. Co, Othzu City
49)	VH	33	10	Kabushiki Kaisha Setonaikai Broadc, Takamatsu
50)	VI	33	30	Fukushima Central TV Co.
51)	MH	33	5	Mie TV Broadcasting Co, Tsu
52)	BR	34	10	Kinki Broadc. Syst. Co, Kyoto
53)	TH	34	10	Toyama TV Broadc. Co, Toyama
54)	MM	34	30	Miyagi TV Broadc. Co, Sendai
55)	MI	34	10	Shimane Broadc. Corp, Matsue
56)	ZH	34	10	Kabushi Kaisha TV, Kumamoto
57)	OH	35	10	Okayama Broadc. Co, Okayama
58)	GM	35	410	Hiroshima Home TV
59)	DI	35	10	TV Miyazaki Co, Miyazaki
60)	CH	35	30	Chukyo TV Co, Nagoya
61)	QH	35	10	TV Shizuoka Co, Shizuoka
62)	NH	35	30	Niigata Sogo TV Co, Niigata
63)	II	35	10	TV Iwate Co, Morioka
64)	HH	35	310	Hokkaido TV Broad. Co, Sapporo: 21.45-15.30
65)	OI	36	10	TV Oita System Co, Oita
66)	SH	36	5	Saga TV Station, Saga
67)	UH	36	56	Sun Television Co, Kobe: 2352-1500
68)	ZF	37	5	Gifu Broadc. Co, Gifu
69)	EI	37	10	Ehime Broadc. Co, Matsuyama
70)	FH	37	30	Fukuoka Broadc. System, Fukuoka
71)	WH	37	10	TV Nagasaki Co, Nagasaki
72)	IH	37	10	Ishikawa TV Broadc. Corp, Kanazawa
73)	BI	37	10	Akita TV Co, Akita
74)	GI	37	93	TV Yamanashi Co, Kofu
75)	KH	38	10	Kagoshima TV Station, Kagoshima
76)	LI	38	10	TV Yamaguchi Co, Yamaguchi
77)	RI	38	10	Kochi N. Co, Kochi
78)	AI	38	10	Aomori TV Co, Aomori
79)	YI	38	10	Yamagata TV Service Co, Yamagata
80)	LH	38	10	Nagano Broadc. System, Nagano
81)	FI	39	10	Fukui TV Broadcasting Co, Fukui
82)	KM	42	10	Television Kanagawa Co, Yokohama
83)	CL	46	5	Chiba TV Corp, China
84)	ML	48	8.5	Gunma TV Co, Maebashi 0840-1230(Sun also 0030-0430)
85)	NM	55	1	Nara Television Co, Nara 0000(Fri, Sat 0400, Sun 0800)-1400

Addresses and other information (number of satellites in brackets):
1) North 1, West S-2, Sapporo
2) Toshin-cho, Higashi-ku, Nagoya–
3) 26-1, Kasumi-cho, Yagiyama, Sendai–

4) 10/18 Ushijima, Toyama–
5) 1-34, 1-chome, Nagahamacho, Fukuoka 810–
6) 17, Koraichi, Kagochima–
7) 32, 1-chome, Saiwaicho, Tokushima–
8) 72 Fukuda, Matsumori, Aomori City–
9) 102, 3-chome, Honmachi, Tottori–
10) 14 Niban-cho, Chiyoda-ku, Tokyo–
11) 4-1-10, Watanabe-tori, Fukuoka–
12) 53 Funadaiku-cho, Kita-ku, Osaka 530–Pres: S. Takahashi. Gen.Mgr: and Film Buyer: T. Hirose. Dir.Tec: R. Shimizu 35.
14) 4-15 Shinsakae-machi, Naka-ku, Nagoya
15) 18, 3-chome, Kawagishicho, Niigata
16) North 1, West 8-1-1, Sapporo–
17) 2-6-10 Kitaguchi, Kofu–
18) 5-13-15, Imazuru, Oita–
19) 1-35, Uwamachi, Nagasaki – Pres: Y. Suzuki. Dir.Tec: M. Ogoh (24).
20) 6-1, Shikecho, Morioka – St.Mgr: T. Ohta. Dir.Tec: S. Yamamota (22).
21) 3-6 Akasaka 5-chome, Minato-ku, Tokyo – St.Mgr: H. Uda. Dir.Tec: K. Takagaki. Pres: H. Suwa. St.Mgr: Y. Yamanashi. Dir.Tec: S. Ogha. Film Buyer: Y. Isozaki (20).
22) 202-chome, Minami, Oyodocho, Osaka–
23) 3-2-1 Honda-machi, Kanasawa–
24) 51 Umegae-cho, Kitaku, Osaka–
25) 7 Kawadacho, Ichigaya, Sinjuku-ku, Tokyo–
26) 23 Honmachi, Kochi–
26a) 1-1 Matsuyamacho, Naha City–
27) 2-8, Marunouchi, Takamatsu–
28) 6-24, Dogohimata, Matsuyama–
29) 5, 2-chome, Hatagomachi, Yamagata–
30) 858, Shimo-Kitakatamachi, Miyazaki.
31) 74-2, Iwai-cho, Kitaku, Osaka–
32) 423 Nishi-Fukuhara, Yonago–
33) 6-4-10 Roppongi, Minato-ku, Tokyo – Pres: M. Takano. Film Buyer: N. Nakamura. Dir.Tec: S. Kaneko (7).
34) 4-13-5, Yahata-ku, Kitakyushu–
34a) 1-66, Kumojicho, Naha City–
35) 2-1-3, Marunouchi, Okayama–
36) Sanno-Ohdorri, Akita–
37) 3-4, Otemachi, Fukui–
38) 1-21-, Yoshidamachi, Nagano–
39) Koenku, Tokyoama–
40) 609, Ishida, Shizuoka – Pres: M. Oishi. Dir.Tec: Y. Katsuse. Film Buyer: K. Udagawa (39).
41) 30 Yamasakimachi, Kumamoto–
42) 2-5, Oyama-cho, Fukushima
43) 58 Shimo-Chayamachi, Nakaku, Nagoya–
44) 6-4, Nakamachi, Hiroshima–
45) 4-4-7 Shiba-park, Minato-ku, Tokyo – Pres: S. Nakagawa. Dir.Tec: S. Ono. Film Buyer: K. Saegusa (2).
46) 1-1-30, Omachi, Sendai–
47) 14-1-5, Nishi, Kita-Ichijo, Sapporo – (9).
48) 465-277, Tsurunosato, Ohtzu City–
49) 1-5-20, Saihocho, Takamatsu 760.
50) 13-23, Ikenodai, Kooriyama, Fukushima 963.
51) Kotani 1-693, Shibumieho, Tsu City, Mie Pref.514–
52) Karasuma-Ebisugawa-agaru, Nakagyoku, Kyote 604.
53) Nezukamachi 828, Toyama 930–
54) 2-17, Narita, Nigatake, Harasmachi, Sendai, Miyagi 982.
55) 721, Nishikawazu-cho, Matsu, Shimane 690.
56) 440, Tokuo Hokubumachi, Hotaku gun, Kumamoto.
57) Gakunancho 3-2-1-, Okayama 700.
58) 19-2, Hakishima Kitamichi, Hiroshima City 730 – St.Mgr: S. Hasegawa. Dir.Tec: M. Nenchi. Film Buyer: C. Nakamichi (15).
59) 241, Gion-cho, Miyazaki 880.
60) 152, Takaminemachi, Showa-ku, Nagoya, Aichi 460.
61) Kurihara 198, Shizouka 420.
62) Kamitokorojima 1134-93, Niigata 950.
63) 2-23-20, Chabatake, Morioka, Iwate 020.
64) 16-654, Hiragishi, Toyohira-ku, Sapporo, Hokkaido.
65) 6-22, Higashikauga-cho, Oita 870.
66) Joonai 1-6-10, Saga 840–
67) Ichibancho, Nishone, Nagataku, Kobe, Hyogo 653–
68) Imakomachi 9, Gifu 500.
69) Masagocho 119, Matsuyama, Ehime 790.
70) Chikukohommachi 13-1, Fikuoka 812.
71) Kanayachi 1-7, Nagasaki 852.
72) Kannondocho 18, Kanazawa, Ishikaa 920-03.
73) Ichirizuka 216, Yatsuhashi, Akita 010.
74) Yuda 2-9-8, Kotu, Yamanashi 400. St.Mgr: K. Kazaza. Dir.Tec: H. Fukunaga. Film Buyer: S. Tatsushige.
75) 6-15-8, Murasakihara, Kagoshima 800.
76) Mihouri, Oouchi 1277, Yamaguchi 747-13.
77) 3-4-27 Kita, Honmachi, Kochi, Kochi 780.
78) Fukuda 94, Matsumori, Aomori 030.
79) Sunazuka 70, Hatago-cho, Yamagata 990.
80) 11-1282, Minami-Ishidomachi, Nagano 380.
81) Haruyama 1-1-14, Fukui 910.
82) 69-1, Yamashita-cho, Naka-ku, Yokohama.
83) 688 Miyakocho, Chiba 280.
84) 120, Kamikoidemashi, Maebashi, Gumma 371 – St.Mgr: M. Sekine. Dir.Tec: Y. Nakajima. Film Buyer: I. Hagiwara (3).
85) 1-1699 Horenji, Nara City – Pres: I. Saeki (8). St.Mgr: K. Mitsuda. Dir.Tec: O. Sekiya. Film Buyer: S. Sawatari.

AMERICAN FORCES RADIO & TELEVISION SERVICE (USAF)

Stations: Misawa ch73 0.6kW, Iwakuni ch73, Okinawa US ch8 40kW (Japanese channel 6).
Addr: OLAF, 6120th Broadcasting Sq, Misawa AB, APO 96519 – OLAE, 6120th Broadcasting Sq, MCAS Iwakuni, FPO Seattle 98764 – 6120th Broadcasting Sq, Sasebo, FPO Seattle 98766 – OLAA, 6120th Broadcasting Sq, Kadena AB, Okinawa, APO SF 96239.

KOREA (Rep.)

KOREAN BROADCASTING SYSTEM-TV (Publicly owned)

Addr: see radio.
L.P: Dir.TV: P. Chong Kuk.
Stations (System M):

Name	ch	kW	Name	ch	kW
Seoul	9	50	Gangneung	9	2
Busan	9	10	Jecheon	13	2
Gwangju	7	10	Jeonju	13	2
Daegu	8	10	Ulsan	5	2
Jejù	6	5	Daejeon	4	1
Namhae	4	2			

+ 51 low power repeaters.
D.Prgr: 0900(Sat 0400, Sun 2200)-1500.

TONG-YANG BROADCASTING CO. LTD.

Addr: P.O. Box 775, Central, Seoul. **Te:** 231211. **Cable:** tberadiotv.
Stations: Seoul HLCK-TV chA7 120-24kW H, Pusan HLKE-TV chA7 80/16kW H.
D.Prgr: 0900(Sat 0400, Sun 2200)-1500.

MUNHWA TV-RADIO BROADC. CORPO. (Comm, Priv.)

Addr: 22 Jung-dong, Sudaemoon-ku, Seoul.
Stations: (System M):

Name	ch	kW	Name	ch	kW
Seoul	11	10	Daejeon	8	2
Busan	11	5	Jeonju	10	2
Daegu	10	2	Ulsan	2	0.1
Jeju	11	2	Masan		
Gwangju	9	2	(unmanned)	13	1

D.Prgr: 0900(Sat 0400, Sun 2200)-1430(Sat 1500).
Colour: NTSC system – **TV-sets:** 2.500.000.

AMERICAN FORCES KOREA NETWORK

Te: 293-6495. **L.P:** See radio.
Stations (Pol: H): Seoul chA2 5kW, chA5 0.12kW, Hwaakson chA12 2kW, Kunsan chA2 0.12kW, Taegu chA12 0.5kW, Taejon chA12 0.5kW, Pusan chA2 0.5kW, Pajuri chA6 1kW. Kwangju-ju chA13 0.1kW, Camp Stanley ch70 0.1kW + 7 low power translators.
D.Prgr: 0500(Sat/Sun 0000)-1600.

If you have information about new TV stations not included in this edition, please write us.

MALAYSIA (Federation of)

PENINSULAR MALAYSIA

RADIO TELEVISION MALAYSIA (Gov.)

Addr: Dept. of Broadc. Angkasapuri, Kuala Lumpur 22-10. **Te:** (03)202366. **Cable:** Tivi Malaysia.
L.P: See radio.

Stations (System B): **Network I:**

Location	chE	kW (ERP)	Location	chE	kW (ERP)
G. Sempah	2	112/22.5	Kuala Pilah	5	7/1.4
C. Highlands	2	2/0.04	Kuantan	5	100/20
J. Bahru	3	100/20	Kuala Krai	5	3/0.6
Penang	5	100/20	Ipoh	6	100/20
Kuala Lumpur	5	100/20	Malacca	6	100/20
Segamat	5	1.3/0.26	K. Dungun	6	2.5/0.5
K. Trengganu	5	4.5/0.9	Kota Bahru	6	230/46
Kuala Lipis	5	19/3.8	Batu Pahat	7	0.25/0.05

+4 low power st's.
D.Prgr: Mon-Wed 0930-1600; Thurs-Sun 0730-1700.

Network II:

Location	chE	kW (ERP)	Location	chE	kW (ERP)
C. Highlands	2	2/0.4	Kuantan	8	100/20
Penang	8	100/20	Ipoh	9	100/20
Kuala Lumpur	8	100/20	Malacca	9	100/20
Segamat	8	1.3/0.26	K. Dungun	9	2.5/0.5
K. Trengganu	8	4.5/0.9	Kota Bahru	9	230/46
Kuala Lipis	8	19/3.8	J. Bahru	10	100/20
Kuala Pilah	8	7/1.4	G. Sempah	10	112/22.5
Kuala Krai	8	3/0.6	+4 low power st's.		

D.Prgr: 1030(Sun 0830)-1530.
TV-sets: 488.453 (licences) – **ALF:** M$ 24.00 (combined Radio and TV).

SABAH AND SARAWAK

(East Malaysia)

TV MALAYSIA NETWORK 3 SABAH AND SARAWAK (Gov.)

Addr: P.O. Box 1016, Kota Kinabalu. **Te:** 52711. **Cable:** Broadcasts.
L.P: Contr.Prgrs: Abdul Mutallib Rani.

Stations (System B); Pol.=H.

Location	chE	kW (ERP)	Location	chE	kW (ERP)
Sabah			**Sarawak**		
Pendalaman	3	10	Limbang	2	10
Lahad Datu	7	40	Sibu	8	100
Sandakan	8	100	Bintulu	9	20
Tawau	9	30	Simanggang	9	100
Pendalaman	9	30	Miri	10	100
Kudat	9	100	Kuching	10	100
Kota Kinabalu	10	100			

D.Prgrs: 1000-1500.
TV-sets: 5.000 – **ALF:** M$ 24.00.

MONGOLIA

MONGOLIAN TV CENTRE

Addr: Ulan Bator.
Station (System D, ch not known).
D.Prgr: 1000-1400.
TV-sets: 3600.

PAKISTAN

PAKISTAN TELEVISION CORPORATION LTD. (Public Ltd. Co.)

Addr: P.O. Box 230, Rawalpindi. **Te:** 66338. **Cable:** Pakteevee. **Telex:** RP 833.
L.P: Man.Dir: M. Nabi Nur. Dir.Prgr.Adm: A. Nasir. Dir. of Overseas Rel: F. Kamaal. Dir.Tec: N. Ahmad Warraich.
Stations (System B): Rawalpindi chE8 100kW, Lahore chE5 50kW, Karachi chE4 36kW, Quetta chE6 36kW, Peshawar chE10 100kW. **Repeaters:** (all 10kW) at Sakesar (chE4), Murree (chE8), Thana Bola Khan (chE9), Shujaabad (chE8), Cherat chE10, Shikarpur chE8, Shiwal chE10, Dadu chE5, Thandiani chE6 (5kW), Lakpass chE4 (6kW).
Projected: Rahim Yar Khan chE10 (July 1977).
D.Prgr: 1100(Sat/Sun 1230)-1830.
TV-sets: 350.000 – **Colour:** PAL-system adopted.

PHILIPPINES (Rep. of the)

Telecommunications Control Bureau (Department of Public Works, Transportation and Communication). For full particulars, see Philippines entry under Radio section. (For full particulars concerning networks or individual stations, see respective number entry shown in parentheses, in Philippines entry under Radio section.)

Monochrome and Colour TV (System M 525 lines and NTSC).
Symbols: °) inactive; c=colour; s=satellite tr. of st. shown; t=tx power.

Call	chA	kW (ERP)	Location	Schedule & Notes
1) DYHB-TV	2	25/5	Murcia	0700-1500
2) DWWX-TV	2	25/5	Quezon C	2100-1600(c)
2) DZBC-TV	3	0.5	Baguio C	0000-1600(c)
2) DZQL-TV	3	0.5	Mt. Banoy	0000-1600(c)
2) DYCB-TV	3	2/1	Cebu C	0000-1600(c)
3) DXLL-TV	3	0.5	Zamboanga C	2000-2400, 0800-1600
4) DWGT-TV	4	25/5	Quezon C	2100-1600(c)
2) DYXL-TV	4	2/0.5	Bacolod C	2100-1600(c)
2) DXAW-TV	4	10/2.5	Davao C	0000-1600(c)
1) DWHB-TV	6	0.5	Baguio C	0700-1500
5) DZBB-TV	7	5/2.5	Quezon C	2200-1800
5) DYSS-TV	7	0.1	Cebu C	0400-1530
6) DYKB-TV	8	5/1.2	Bacolod C	2200-1600
6) DZKB-TV	9	25/6	Quezon C	2100-1600
6) DYKC-TV	9	5/1.2	Cebu C	2200-1600
6) DWKI-TV	10	5/1.2	Iriga C	0000-1600
7) DYAF-TV	10	5/1.2	Murcia	2100-1600
1) DXCC-TV	10	0.5	Cagayan de Oro C	0100-1500
6) DZBS-TV	12	5/1.2	Baguio C	2100-1300
1) DZTV-TV	13	25/6	Quezon C	2200-1600(c)
1) DZHN-TV	13	0.5	Naga C	2300-1500
1) DYTV-TV	13	12.5/3	Cebu C	0730-1500
1) DXTV-TV	13	5/1.2	Davao C	0630-1500

1) R. Mindanao Net-Inter Island Broadc. Corp.
2) Bahahaw Broadc. Corp.
3) Zamboanga Television Corp.
4) National Media Prod. Center, Bohol Ave, Cubao, Quezon C. 3005.
5) GMA R.TV Arts & Videocqm, Inc.
6) R. Philippines Net.
7) Catholic Welfare Org, University of Negros Occidental, Recoletos Compound, Lizares Ave, Bacolod City 6001.

American Forces Philippines Network (AFPN)
(For full particulars, see Philippine entry under Radio section). **St's:** Key st AFPN-TV chA8 80W US AFB Clark, Pampanga (Angeles City) and 3 st's chA34 10W(s) at Cubi Point US Naval Air St, Bataan; US Naval Communications St, Zambales (San Antonio, Zambales); Subic Bay US Naval Base, Zimbales (Olongapo City).

SINGAPORE

TELEVISION SINGAPORE (Gov.)

Addr: P.O. Box 1902, Singapore.
L.P: Controller TV: Lim Heng Tow.
Stations (System B): Bukit Batok: chE5/chE8 80kW.
D.Prgr: chE5 Mon-Fri 0730-0930, 1020-1630; Sat 0530-1730; Sun 0230-1630; chE8 Mon-Fri 1020-1530; Sat 0830-1600; Sun 0730-1530. **Colour** (using PAL system): 45 hrs per week.
Educational (chE8): Mon-Fri 0050-0955; Sat 0125-0410.
TV-sets: 293.461 – **ALF:** S$36.00 – (4 studios).

THAILAND

TELEVISION OF THAILAND (Gov.)

Addr: Public Rel. Dept. Bangkok.
Stations (System M): Lampang ch8 2/0.4kW, Khon Kaen ch5 6/1.2kW, Surat Thani ch9 10.7/2.1kW, Songkla ch10 10.7/2.1kW (System B) + 1 relay st at Phuket (ch11).
D.Prgr's: Mon-Fri 1000-1600(Sat/Sun 0200-1600 (approx-)).

THAI TELEVISION CO. LTD. (Semi Gov, Comm.)

Addr: 66, 66/1-2 Phrasumen Road, Banglampoo, Bangkok. **Te:** 2817044. **Cable:** Thaitevi.
Stations: Bangkok ch3 50/10kW, ch9 20/4kW.
D.Prgr: ch3: 1100(Sat/Sun 0630)-1600; ch9: 1020(Sat/Sun 0305)-1600.

THE ARMY TELEVISION HSA-TV (Gov, Comm.)

Addr: Paholyotin Rd, Bangkok. **Te:** 70428.
Stations: Bangkok ch5 20/4kW, ch7 20/4kW.
D.Prgr: ch5: 1050(Sat/Sun 0130)-1600; ch7: 1100(Sat/Sun 0430)-1600.
Colour: PAL system used by Thai TV and Army TV.
TV-sets: 761.015.

PACIFIC

AUSTRALIA

AUSTRALIAN BROADCASTING COMMISSION (ABC)

National Television is controlled by the Australian Broadcasting Commission, which is responsible to Parliament through the Minister for Post and Telecommunications.
Addr: Box 487, GPO, Sydney 2001 – **L.P:** See radio.
Stations: *) Metropolitan; †) Regional. **Note:** Audio powers are 1/10 of Vision powers.

Australian Capital Territory

Call	ch	kW(ERP)	Pol.	Location
ABC†	3	100	V	Canberra
New South Wales				
ABMN†	0	100	H	Wagga Wagga
ABTN†	1	100	V	Taree
ABCN†	1	100	V	Orange
ABN†	2	100	H	Sydney
ABDN†	2	100	H	Grafton/Lempsey
ABLN†	2	5	V	Broken Hill
ABHN†	5	100	H	Newcastle
ABQN†	5	100	V	Dubbo
ABWN†	5A	100	H	Wollongong
ABRN†	6	100	H	Lismore
ABUN†	7	100	H	Tamworth
ABGN†	7	100	H	Griffith
ABSN†	8	100	V	Bega-Cooma
+ 1 low power repeater.				
Victoria				
ABEV†	1	100	V	Bendigo
ABAV†	1	100	H	Albury
ABV*	2	100	H	Melbourne
ABSV†	2	100	V	Swan Hill
ABRV†	3	100	H	Ballarat
ABGV†	3	100	V	Shepparton
ABLV†	4	100	H	Taralgon
ABMV†	4	100	H	Mildura
Queensland				
ABSQ†	1	100	H	Warwick
ABQ*	2	100	H	Brisbane
ABDQ†	3	100	H	Toowoomba
ABRQ†	3	100	H	Rockhampton
ABTQ†	3	100	H	Townsville
ABMQ†	4	100	H	Mackay
ABWQ†	6	100	V	Maryborough
ABRDQ†	6	0.1	H	Richmond
ABIQ†	6	0.5	H	Mount Isa
ABGQ†	6	0.25	H	Goondiwindi
ABLQ+	6	0.65	H	Longreach
Queensland				
ABMLQ+	6	0.1	H	Mitchell
ABCLQ†	7	0.1	H	Cloncurry
ABRAQ+	7	1	H	Roma
ABWNQ+	8	1	H	Winton
ABNQ+	9	100	H	Cairns
ABHQ+	9	0.1	H	Hughenden
ABSMQ+	9	0.16	V	Miles
ABCEQ+	9	0.25	H	Charleville
ABJQ+	10	0.1	H	Julia Creek
+ 12 low power repeaters.				
South Autralia				
ABGS+	1	100	H	Mount Gambier
ABNS+	1	100	V	Port Pirie
ABS*	2	100	H	Adelaide
ABRS+	3	100	V	Loxton
ABCS+	7	0.1	H	Ceduna
ABWS+	7	5W	H	Woomera
Western Australia				
ABW*	2	100	H	Perth
ABAW+	2	100	V	Albany
ABCW+	4	100	H	Northam-York
ABSW+	5	100	H	Bunbury
ABGW+	6	10	H	Geraldton
ABKW+	6	8	H	Kalgoorlie
ABCNW+	7	0.1	H	Carnarvon
ABPHW+	7	0.34	H	Pt. Hedland
ABCMW+	8	10	H	Morowa
ABSBW+	9	1	H	So. Cross/ Bullfinch
ABRBW+	9	1	H	Roebourne
ABMW+	10	10	H	Moora
ABEW+	10	1	H	Esperance
+ 3 low power repeaters.				
Tasmania				
ABT*	2	100	H	Hobart
ABNT+	3	100	H	Lunceston
ABKT+	11	2	H	King Island
Northern Territory				
ABD+	6	10	H	Darwin
ABAD+	7	25W	H	Alice Springs
ABKD+	7	30W	H	Katherine
ABTD+	9	0.1	H	Tennant Creek

+67 translator stations 1 to 500 Watts.
D.Prgrs: Mon-Fri 2300-1300; Sat 0200-1300; Sun 0020-1230. PAL colour service commenced on March 1st, 1975, on all ABC stations.

PRIVATELY OWNED COMMERCIAL TV STATIONS

Federation of Australian Commercial Television Stations

Suite 404-4th Floor, Caltex House, Sydney. **Te:** 27-8151. **Cable:** Telefed. **L.P:** Federal Dir: J. Malone. **Adv.** accepted under conditions of Australian Broadc. Control Board.

Stations: The two first letters are an abbreviation of the name of the license, the third indicates the state and the numeral signifies the channel.
H=Horizontal Pol; V=Vertical Pol.
Aural power 10% of the visual power.
Colour: PAL system used.

	Call	kW(ERP)		Call	kW(ERP)
1)	ATV0	100(H)	17)	HSV7	100(H)
2)	TVQ0	100(H)	18)	BTQ7	100(H)
3)	RVN2	100(H)	19)	RTQ7	100(H)
4)	NBN3	100(H)	20)	TNQ7	100(H)
5)	BTW3	50(H)	21)	ADS7	100(H)
6)	WIN4	100(H)	22)	TVW7	100(H)
7)	AMV4	100(H)	23)	BKN7	100(H)
8)	GTS4	50(V)	13)	CBN8	100(V)
9)	SDQ4	(relay)	24)	RTN8	100(H)
10)	BTV6	100(H)	25)	BCV8	100(V)
11)	GMV6	100(V)	26)	STV8	100(H)
12)	TVT6	100(H)	27)	WBQ8	100(V)
13)	CWN6	100(V)	28)	SES8	50(H)
14)	MVQ6	100(H)	29)	RTN8	100(H)
15)	ATN7	100(H)	30)	VEW8	4(H)
16)	CTC7	100(V)	31)	ITQ8	0.5(H)

Call	kW(ERP)	Call	kW(ERP)
32) NTD8	10(H)	40) TNT9	100(H)
35) ECN8	100(V)	5) GSW9	(relay)
33) TCN9	100(H)	41) TEN10	100(H)
34) MTN9	100(H)	25) GLV10	100(H)
35) NEN9	100(H)	9) DDQ10	100(H)
36) GTV9	100(H)	42) FNQ10	100(H)
37) QTQ9	100(H)	43) SAS10	100(H)
38) NSW9	100(H)	25) BCV11	20(H)
39) STW9	100(H)	29) NRN11	100(H)

1) Austarama TV Pty. Ltd, P.O. Box 42, Nunawading, Vic. 3131. **Cable:** Austarama – Gen.Mgr: D.L. Hall. Dir.Tec: G.H. Davey. Film Buyer: J. McLachlan. 2100(Sun 0000)-1500.

2) Universal Telecasters Qld. Ltd, G.P.O. Box 751, Brisbane 4001. **Cable:** Channel O – Gen.Mgr: R.G. Archer.Dir.Tec: J.C. Stevenson. Film Buyer: R. Pennell. 0045(Sat 2300, Sun 0200)-1330.

3) Riverina & North East Victoria TV Ltd, P.O. Box 2, Kooringal 2650. **Cable:** Rivtel – Mgr. and Film Buyer: W.P. Marsden. Dir.Tec: S. MacDonald. 0600(Wed 0230)-1300(Thurs/Fri 1230).

4) Newcastle Broadc. and TV Corp. Ltd, P.O. Box 750L, Newcastle 2300. **Cable:** Chanthree – St.Mgr. and Film Buyer: G. Brown. Dir.Tec: H.J. McPhee. 2050-2300, 0500-1345(Sat 0000-1400, Sun 0030-1350).

5) South Western Telecasters Ltd, P.O. Box 112, Bunbury, W.A. 6230. **Cable:** Souwestel – Mgr: B. Hopwood. Dir.Tec: A. Stewart. 0930(Wed 0500, Sun 0630)-1500. Relay st. GSW9 (Albany).

6) TV Wollongong Transmissions Ltd, P.O. Box 1800, Wollongong 2500. **Cable:** Winteevee – Gen.Mgr. and Film Buyer: W. Lean. Dir.Tec: K. Roberts. 0130(Sat 2200, Sun 0030)-1400.

7) Albury Upper Murray TV Ltd, TV Centre, Union Rd, Albury, Vic. 2640. **Cable:** Ayemfour – Gen.Mgr: R. Kidd. Dir.Tec: K.M. Tulk. 0600(Tues/Wed 0200)-1300 (Tues/Wed 1230); Sat 0700-1300; Sun 0130-1200.

8) Spencer Gulf Telecasters Ltd, P.O. Box 305, Port Pirie, SA 5540. **Cable:** "GTS4" – St.Mgr: K. Boucher. Dir.Tec: W. Shearer, Film Buyer: J.M. Sturrock. 0730(Sun, Wed 0200)-1330(approx))+2 relay st's).

9) Darling Downs TV Ltd, P.O. Box 670, Toowoomba, Qld. 4350. **Cable:** Deedecue – Mgr: L.R. Burrows. Dir.Tec: P. Ament. 0300-1300. Relay st. SDQ4 (South Downs).

10) Ballarat & Western Victoria TV Ltd, P.O. Box 464, Ballarat, Vic. 3350. **Cable:** Beeteesix – Gen.Mgr: J. Stapp. Dir.Tec: H.L. Riley. Film Buyer: R.A. Fry. Mon/Thurs/Fri 0500-1330; Tues/Wed 0200-1400; Sat 0600-1330; Sun 0145-1330. (+3 translators).

11) Goulburn Murray TV Ltd, P.O. Box 666, Shepparton, Vic. 3630. **Cable:** Geemveesix – Gen.Mgr: P.L. Twomey. St.Mgr: R. Euling – 0200-1400 (+2 relay st's).

12) Tasmania TV Ltd. G.P.O. Box 1209M, Hobart, Tasmania 7001. **Cable:** Tasteevee – Man.Dir: E.G. McRae. St.Mgr: D. Carter. Dir.Tec: G. Bell. 0300(Fri 0400)-1300(Fri 1330); Sun 0200-1300.

13) Country TV Service Ltd, P.O. Box 465, Orange 2800. **Cable:** Cebtes – Gen.Mgr: E. Yelf. St.Mgr: I.B. Ridley. Dir.Tec: J. Vanderstock. 0530(Tues, Thurs 0330/Sun 0230)-1300. Relay st. CWN6 (Dubbo).

14) MacKay TV Ltd, P.O. Box 496, MacKay, Qld. 4740. **Cable:** Emveecue – St.Mgr. and Film Buyer: M. Williams. Dir.Tec: E.J. Ditton. 0400(Sat/Sun 0700)-1230 (+3 relay st's).

15) Amalgamated TV Sces. Pty. Ltd, Television Centre, Epping 2121. **Cable:** Telecentre – Gen.Mgr: E. Thomas. Dir.Tec: G. Healy. Film Buyer: G. Kinging. 2000-1430.

16) Canberra TV Ltd, P.O. Box 21, Watson, A.C.T. 2602. **Cable:** Ceeteecee – St.Mgr: G.K. Barlin. Dir.Tec: A.R. Martin. Film Buyer: M. Lattin. 0200-1400 (+2 relay st's).

17) Herald-Sun TV Pty. Ltd, G.P.O. Box 215D. Melbourne 3001. **Cable:** Hertel – Mgr: R. Casey. Dir.Tec: J. Fisher. 2100-1500.

18) Brisbane TV Ltd, P.O. Box 604, Brisbane, Qld. 4001. **Cable:** Beeteecue – Chief Exec: G. Moller. Dir.Tec: G. Everingham. 0100-1330(Sat 2300, Sun 0000-1400).

19) Rockhampton TV Ltd, P.O. Box 568, Rockhampton, Qld. 4700. **Cable:** Ateecue – Mgr. and Film Buyer: B. Saunders. Dir.Tec: C. Amoore. 0700(Tues/Wed 0400)-1200(or 1230) (Fri 1300).

20) Telecasters North Queensland Ltd, P.O. Box 1016, Townsville, Qld. 4810. **Cble:** Teenq – Dir. J.F. Gleeson. Dir.Tec: R. McRae Barton. 0600(Mon 0500, Wed 0300, Sat 0700)-1230 (approx.)

21) TV Broadcasters Ltd, 125 Strangways Terrace, North Adelaide, SA 5006. **Cable:** Adseven – St.Mgr: J.S. Doherty. Dir.Tec: N. Sawyer. Film Buyer: I. Woodward. Generally 2300-1500(Sat 1530).

22) TVW Ltd, P.O. Box 77, Tuart Hill, W.A. 6060. **Cable:** Teleview – Man.Dir: J.W. Cruthers. St.Mgr: M. Bostock. Dir.Tec: G. Mortlock. 0230(Sat 0100, Sun 0200)-1600.

23) Broken Hill TV Ltd, P.O. Box 472, Broken Hill 2880 – Mgr: K. Boucher. 0830(Wed 0230)-1230(Wed/Fri 1300); Sun 0830-1200.

24) Richmond Tweed TV Ltd, P.O. Box 423, Lismore 2480. **Cable:** Richteeve – Man.Dir: G. Doust. Dir.Tec: H. Green. 1300(Sat 0700)-1300; Sun 0630-1230 (relays st. 29).

25) Victorian Broadc. Netw. Ltd, TV-Division, P.O. Box 240, Bendigo, Vic. 3550. **Cable:** Beneight – St.Mgr. & Film Buyer: F.A. McManus. Dir.Tec: J. Marsden. 0200-1400 (relays GLV10 Gippsland, BCV11 Swan Hill, STV8 Mildura).

26) See st. 25.

27) Wide Bay Burnett TV Ltd, P.O. Box 30, Maryborough, Qld. 4650. **Cable:** Wideteve – Gen.Mgr: A.M. Daniel. Dir.Tec: B. Hunter. Mon 0530-1230; Tues 04300-1300; Wed 0400-1300; Thurs 0430-1245; Fri 0530-1315; Sat 0600-1230; Sun 0500-1230 (+2 relay st's).

28) South East Telecasters Ltd, P.O. Box 821, Mt. Gambier, SA. 5290. **Cable:** Setel. Gen.Mgr. and Film Buyer: A.B. Noblet, Dir.Tec: G.D. Smythe. 0800(Wed 0400, Sun 0200)-1300.

29) Northern Rivers TV Ltd, P.O. Box 920, Coffs Harbour 2450. **Cable:** Enareleven – Mgr: J.W. McKenzie. Dir.Tec: B.J. Beasley. 0300(Sat 0700, Sun 0500)-1300; Relay RTN8 (Lismore) +3 translators.

30) Mid Western Television Pty. Ltd, 2 Killarney Str, Kargoolie, WA 6430 – Man.Dir: Lilburn. St.Mgr: J.J. Aldons. Dir.Tec: J.E. Ferguson. 0930-1430.

31) Mt. Isa Television Pty. Ltd, 110 Camooweal Str, Mt. Isa, Qld. 4825 – St.Mgr; Mrs. Jane Koitka. Man.Dir: Sir A. Joel. 0730-1200.

32) Territory Television Pty. Ltd, P.O. Box 1764, Darwin, NT 5794 – St.Mgr: J.B. Lewis. Dir.Tec: B. Collaton. 0800-1330.

33) TV Corporation Ltd, P.O. Box 27, Willoughby 2068. **Cable:** Diffusion – Gen.Mgr: S. Chisholm. St.Mgr: R. Delamont. Dir.Tec: L. Free. 24h.

34) Murrumbridge TV Ltd, P.O. Box 493, Griffith 2680. Man.Dir: W.R. Gamble. St.Mgr: N. Murphy. Dir.Tec: Ove Andersen. 0400(Sat 0700, Sun 0230)-1300.

35) TV New England Ltd, P.O. Box 317, Tamworth 2340. **Cable:** Nenine – St.Mgr. and Film Buyer: K.D. Smith. Dir.Tec: O.E. Bartle. 0300(Sat 0630)-1245. Relay ECN8 (Middle Brother) +5 translators.

36) General TV Corporation Pty. Ltd, P.O. Box 100, Richmond, Vic. 3121. **Cable:** Geeteevee – Exec.Vice-Pres: D. Evans. Dir.Tec: J. Young. Film Buyer: J. McKay. 2130-1530.

37) Queensland TV Ltd, Box 72 GPO, Brisbane 4001. **Cable:** Queteenine – Gen.Mgr: J.W. McKay. Dir.Tec: M.J. Bartlett. 0000(Sat 2045)-1300.

38) Southern TV Co. Ltd, P.O. Box 9, North Adelaide, SA 5006. **Cable:** Newsnine – Gen.Mgr. and Film Buyer: R. Heading. Dir.Tec: J. Batcherlor. 0100(Sat 0130)-1400(Sun 0045-1330).

39) Swan TV Ltd, P.O. Box 99, Tuart Hill, WA 6060. **Cable:** Swantel – Man.Dir: L. Kiernan. St.Mgr: W.H. Bowen. Dir.Tec: T. Provan. Film Buyer: T. Warne. 0300-1600.

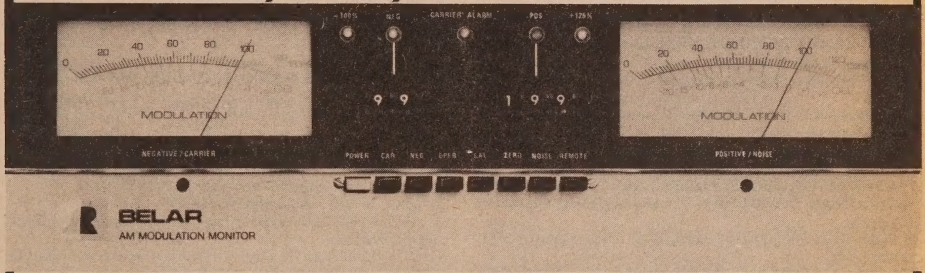
40) Northern TV Ltd, P.O. Box 873, Launceston, Tas. 7250. **Cable:** Netnine – Man.Dir: A.E. Evans. Dir.Tec: K.J. Briggs. Film Buyer: B.L. England. 0300(Sat 0500)-1400, Sun 0200-1300.

41) United Telecasters Sydney Ltd, Epping and Pittwater Rds, North Ryde 2113. **Cable:** Unitelcast – Gen.Mgr: I. Holmes. Dir.Tec: F. Kenyon. Film Buyer: R. Haynes. 2100-1400.

42) Far Northern TV Ltd, P.O. Box 596, Cairns, Qld. 4870 – St.Mgr: C. Lindsay. Dir.Tec: R. Barton. Film Buyer: K. Christensen. 0600-1230 (on relay from st. 20).

43) South Australian Telecasters Ltd, 45-49 Park Terrace, Gilberton, SA 5081. **Cable:** Sasten – Gen.Mgr: W. McKen-

When accuracy Counts...Count on Belar
for AM/FM/TV MONITORS



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zie. Dir.Tec: P.W. Smith. Film Buyer: J.F. Trost. 2130(Sat 0230, Sun 0030)-1430. +3 satellites.

GUAM (US Terr.)

KUAM TELEVISION (Comm.)

Addr: P.O. Box 368, Agana. **Cable:** Kuam.
L.P: Pres: H. Scott Killgore. Exec. Vice-Pres: Wm. B. Nielsen.
Station: chA8 25.1/2.57kW – **D.Prgr:** Mon-Fri 0600-1400, Sat 0200-1400, Sun 0400-1400 (full colour operations).

KGTF TELEVISION (Educ.)

Addr: Guam Educational Telecommunications Corporation, Box 3615, Agana 96910. **Te:** 734-2207.
L.P: Dir: Ursula I. Muna. Chief Eng: August Leif Heit.
Station: chA12 27.6/5.5kW.
D.Prgr: 0400-1000(Sun 0400-1100).
TV-sets: 101.000 (incl. 76.000 colour sets).

HAWAII (US State)

TV-Stations: All st's comm. exc. 7)&9) Educational.

	Call	ch	kW(ERP)
1)	KHON-TV	2	60.3/12.6
2)	KGME	3	14.1/2.69
3)	KHVH-TV	4	100/20
4)	KAII-TV	7	29.8/5.89
5)	KGMB-TV	9	209/29.5
6)	KGMD	9	1/0.5
7)	KMEB-TV	10	30.9/6.17
8)	KHAW-TV	11	2.09/0.275
9)	KHET	11	148/29.5
10)	KMVI-TV	12	30/4.36
11)	KIKU-TV	13	30.7/6.17
12)	KHVO	13	4.68/1.59

1) McCoy Broadcasting Co, 1170 Auahi Str, Honolulu – Gen.Mgr: George Hagar.
2) John S. Young Ass. Inc, P.O. Box 1574, Kaliului – St.Mgr. and Dir.Tec: J.M. Vetter (satellite of 5).
3) Western Telestations Inc, 1290 Ala Moana Blvd, Honolulu 96814 – Gen.Mgr: D. Grimm. Dir.Tec: C. Hartmann.
4) Satellite of st. 1).
5) Pacific Broadc. Co, 1534 Kapiolani Blvd, Honolulu 96814 – St.Mgr: E. McDaniel. Dir.Tec: A. Chang.
6) Satellite of st. 5) – 7) Satellite of st. 9) – 8) Satellite of st. 1).
9) University of Hawaii, 1776 University Ave, Honolulu 96822.
10) Semi-satellite of st. 3).
11) 150-B Punhale Rd, Honolulu 96819 – Gen.Mgr: Joanna Ninomiya.
12) Satellite of st. 3).
TV-sets: 213.000.

JOHNSTON ISLAND (US Terr.)

JOHNSTON ATOLL (US Air Force)

Addr. & L.P: see radio.
Station: AFTV chA10 0.12kW. **D.Prgr** (colour): 0800-1300.

MIDWAY ISLAND (US Terr.)

NAVY BROADCASTING SERVICE (AFRTS)

Addr. & L.P: see radio.
Station: chA4 0.1kWV.
D.Prgr: W 0300(or 0230)-1100, Sat 2000-1200, Sun 2300-1100 – **TV-sets:** 500 (+ 300 colour sets).

NEW CALEDONIA

FRANCE REGIONS 3 (FR3)

Addr: B.P. G3, Noumea.
L.P: See radio.
Stations (System K'625 lines): 2x0.5kW chK'6 chK'4 and chK'8 + 4 low power st's on chK'6.
D.Prgr: W 0630-1130, Sun 0515-1115 – **TV-sets:** 15.100.

NEW ZEALAND

TELEVISION SERVICE ONE
(Statutory Public Body)
Addr: P.O. Box 30-355, Lower Hutt. **Te:** 666-969. **Cable:** Teeveeone.
L.P: Dir.Gen: A.E. Morris. Contr.Eng: P. Mainwaring. Contr.Prgrs: W.S. Munro, D.J. Monaghan.
Stations: Wellington ch1 100/10kW H, Auckland ch2 100/10kW H, Christchurch ch3 100/10kW H, Dunedin ch2 50/5kW H+5 high powered and 120 low powered repeaters.
D.Prgr: 2330-1100(Fri 1200); Sat 2200-1200; Sun 2300-1100.

TELEVISION SERVICE TWO (South Pacific TV)
(Statutory Public Body)
Addr: P.O. Box 3819, Auckland 1. **Te:** 770-630. **Cable:** Teltwo.
L.P: Dir.Gen: A.W. Martin. Contr.Eng: P. Sandlant. Contr.Prgrs: K. Moore.
Stations: Auckland ch4 300/30kW H. Wellington ch5 300/30kW H, Christchurch ch8 300/30kW H, Dunedin ch4 300/30kW H+repeaters at Hamilton ch3 100/10kW V, Palmerston North ch4 300/30kW V, Invercargill ch3 100/20kW H.
D.Prgr: 0100-1030(Fri/Sat 1200, Sun 1100). **Colour:** PAL system used.
TV-sets: 812.929 (incl. 227.535 colour sets) – **ALF:** $NZ 27,50 (mono), $NZ 45,00 (colour).

SAMOA (American)

TELEVISION OF SAMOA (Gov.)
Addr: Dept. of Education, Pago Pago. **Te:** 2438.
Stations: (System M): chA2/A4/A5/A8/A10/A12 (ch 2/4/5 40kW, ch 8/10 100kW). Satellites: chA7/A8/A12 0.01kW H.
D.Prgr: 1830-0130, 0330-0900.
TV-sets: 5.100 (+ 600 colour sets).

SOCIETY ISLANDS (French)
Tahiti

FRANCE REGIONS 3 (FR3)
Addr: B.P. 125, Papeete.
L.P: See radio.
Stations (System K'625 lines): Marau chK'8 0.5kW; Raiatea, Pumaruu chK'5 & Pueu chK'4 (all 0.1kW); Papeete chK'6 & Pic Rouge chK'4 (both 0.05kW).
D.Prgr's: 0400(Sat/Sun 0200)-0830 – **TV-sets:** 14.000.

TRUST TERRITORY OF THE PACIFIC
(Micronesia)

MICRONESIA BROADC. CORPO. (Comm.)
Addr: Royal Taga Hotal, Saipan, M1.
L.P: Pres: H. Scott Killgore. Dir.Tec: W. Beall.
Stations (System M): WSZE-TV ch8 0.4kW WSZF ch10 0.02kW – **D.Prgr:** 2000-1400 – **TV-sets:** 3050.

NORTH AMERICA

ALASKA (US State)

TV-STATIONS: All comm. exc. 3, 4, 6 (Educational).

	Call	ch	kW(ERP)		Call	ch	kW(ERP)
1)	KFAR-TV	2	5.37/0.67	6)	KUAC-TV	9	56.2/10
2)	KENI-TV	2	28.8/5.74	7)	KTVA-TV	11	26.3/5.25
3)	KYUK-TV	4	4.68/0.9	8)	KTVF-TV	11	27.5/5.5
4)	KAKM-TV	7	10.5/22.9	9)	KIMO-TV	13	30.9/6.17
5)	KINY-TV	8	0.24/0.05	10)	KIFW-TV	13	0.2/0.03

1) Box 910, Fairbanks 99701 – St.Mgr: D. Andon. Chief Eng: D. Garrett.
2) Box 1160, Anchorage 99510 – Pres. and Gen.Mgr: A.O. Bramstedt. Dir.Tec: S. Moore.
3) Box 468, Bethel 99559 – Gen.Mgr: Jim Croll. Dir.Tec: B. Tinkle.
4) 2530 Providence Dr, Anchorage 99504 – Gen.Mgr: Ed. Smith.
5) 231 Franklin St, Juneau 99801 – St.Mgr: P. Rider. Dir.Tec: D. Moore.
6) University of Alaska, Fairbanks 99701.
7) 1007 West 23rd Ave, Anchorage 99503 – Pres. and Gen.Mgr:A.G. Hibert. Dir.Tec: G. Howard.
8) Box 950, Fairbanks 99707 – Gen.Mgr: T. Lehne.
9) 3910 Seward Hwy, Anchorage 99503 – Gen.Mgr: C.A. Bracale. Dir.Tec: R. Zook.
10) Box 299, Sitka 99835 – Gen.Mgr: St. L. Rhyner. Chief Eng: S. Goodwin.

ARMED FORCES RADIO & TV SCE. (US Mil.)

Stations:	ch	kW	Stations:	ch	kW
Adak[1]	8	0.12	Tatalina	11	0.5
Galena[2]	8	50	Shemya[4]	13	0.1
King Salmon[3]	8	0.1			

1) Box 19, FPO, Seattle, Washington 98791.
2) APO, Seattle, Washington 98723.
3) 5071st AB Squadron, King Salmon Air Force Base, Alaska 99613.
4) 5073rd Air Base Squadron, Shemya Air Force Station, APO Seattle, Washington 98736.

BERMUDA

BERMUDA BROADCASTING CO. LTD (Comm.)
Addr: P.O. Box 452, Hamilton.
L.P: Man.Dir: Walter Staskow. Gen.Mgr: Q. Edness. Dir.Tec: Bryan Lodge.
Station: ZMB-TV chA10 17.5/8.75kW H.
D.Prgr: 1500-1600, 1900-0330(approx).
Colour TV: 40 hrs per week(NTSC system).

CAPITAL BROADCASTING CO. LTD.
Addr: Box 652, Hamilton. **Te:** 2-4444. **Cable:** Capbro.
L.P: See radio. **Station** (System M): ZFB-TV chA8 32.5kW (ERP) H. **D.Prgr:** Mon-Fri 2055-0400; Sat 1230-1600, 2030-0400; Sun 1930-0400.
TV-sets: 27.000 (incl. 9.000 colour sets).

CANADA

CANADIAN BROADCASTING CORPORATION/SOCIETE RADIO/CANADA (Publicly owned).
Head Office: P.O. Box 8478, Ottawa, Ontario, K1G 3J5. **Cable:** Broadcast. **Telex:** 053-4260. **Te:** (613)731-3111.
L.P: see radio.
English Sce's Div: P.O. Box 500, Station "A", Toronto, Ontario M5W 1E6. **Cable:** Broadcast. **Telex:** 02-2763. **Te:** (416)925-3311.
L.P: Vice-Pres. & Gen.Mgr: D. MacPherson. Asst.Gen.Mgr: Dennis Harvey. Man.Dir.TV: N. Garriock. Dir. of TV-Prgr. ESD: J. Craine. Dir. of TV News & Current Affairs: K. Nask. Dir. of TV Netw. Promotion: H. Gauntlett. Chief Eng: G.H. Jones. Divisional Head, Export Sales: A.H. Partridge. Superv.Intern.Rel. & Prgr. Exchange: L. McIlhagga.
French Sce's Division: P.O. Box 6000, Montreal, Que. H3C 3A8. **Cable:** Radcan. **Telex:** 05-267417. **Te:** (514)285-3211.
L.P: Vice-Pres. & Gen.Mgr: R. David. Asst.Gen.Mgr: J. Landry. Dir. of TV: J.M. Dugas. Dir. TV Prgr: J.C. Rinfret. Dir. of Inf.Prgr: M. Thibault. Dir. of Engineering: G. Gougeon. Superv. of International Rel. TV: L. Hébert.
Stations (System M) Pol: H.

English Netw.	Call	chA	kW(ERP)
1) Goose Bay, Lab.	CFLA-TV	8	0.87/0.435
2) Corner Brook, Nfld.	CBYT	5	10.6/2.12
3) Labrador City, Nfld.	CBNLT	13	.214/0.043
4) St. John's, Nfld.	CBNT	8	196/39.2
5) Charlottetown, P.E.I.	CBCT	13	178/35.8
6) Halifax, N.S.	CBHT	3	56/11.2

English Netw.	Call	chA	kW(ERP)
7) Sydney, N.S.	CBIT	5	54/10.8
8) Montreal, Que.	CBMT	6	100/15
9) Ottawa, Ont.	CBOT	4	100/15
10) Toronto, Ont.	CBLT	5	77/7.7
11) Windsor, Ont.	CBET	9	178/35.6
12) Winnipeg, Man.	CBWT	6	100/12
13) Moose Jaw, Sask.	*CBKMT	4	48/7.7
14) Saskatoon, Sask.	*CBKST	11	325/65
15) Calgary, Alta.	CBRT	9	178/35.6
16) Edmonton, Alta.	*CBXT	5	318/34.3
17) Vancouver, B.C.	*CBUT	2	47.6/7.6

+166 CBC owned relay and rebroadc. st's +169 priv. owned affiliated rebroadcast st's.
*) Carry a few hours of French programming weekly.

Addresses:
1) P.O. Box 89, Stn. "A" Goose Bay, Lab. AOP 1SO.
2) P.O Box 610, Corner Brook, Nfld. A2H 6G1.
3) P.O. Box 567, Labrador City, Nfld. A2V 2L3.
4) P.O. Box12010 Stn. "A", Kenmount Rd, St. Johns, Nfld. A1B 3T8.
5) P.O. Box 515, Charlottetown, P.E.I. C1A 7L1.
6) P.O. Box 3000, Halifax, N.S. B3J 3E9.
7) P.O. Box 700, Sydney, N.S. B1P 6H7.
8) P.O. Box 6000, Montreal, Que. H3C 3A8.
9) P.O. Box 3220, Stn. "C", Ottawa, Ont. K1Y 1E4.
10) P.O. Box 500, Stn. "A", Toronto, Ont. M5W 1E6.
11) P.O. Box 1609, Windsor, Ont. N9A 1K7.
12) P.O. Box 160, Winnipeg, Man. R3C 2H1.
13) 127 Main Str, N. Moose Jaw, Sask. S6H 0V9.
14) 5th Floor, CN Tower, 1st Ave North, Saskatoon, Sask. S7K 1J5.
15) P.O. Box 2640, Calgary, Alta. T2P 2M7.
16) P.O. Box 555, Edmonton, Alta. T5J 2P4.
17) P.O. Box 4600, Vancouver, B.C. V6B 4A2.

French Netw.	Call	chA	kW(ERP)
1) Moncton, N.B.	CBAFT	11	163/33
2) Matane, Que.	CBGAT	9	153/92
3) Montreal, Que.	CBFT	2	100/10
4) Quebec, Que.	CBVT	11	173/34.6
5) Ottawa, Ont.	CBOFT	9	128/25.6
6) Toronto, Ont.	CBLFT	25	234/46.8
7) Winnipeg, Man.	CBWFT	3	59/7.37
8) Edmonton, Alta.	CBXFT	11	90/9
9) Vancouver, B.C.	CBUFT	26	105/5

+47 CBC owned relay and rebroadc. st's and "Frontier coverage package" (limited videotape sce. for isolated communities).
+34 privately owned affiliated and rebroadc. st's.

Addresses
1) P.O. Box 950, Moncton, N.B. E1C 8N8.
2) P.O. Box 218, Matane, Que. G4W 3P7.
3) P.O. Box 6000, Montreal, Que. H3C 3A8.
4) P.O. Box 10400, St.-Foy, Que. G1V 2X2.
5) P.O. Box 3220, Stn. "C", Ottawa, Ont. K1Y 1E4.
6) P.O. Box 500 Stn. "A", Toronto, Ont. M5W 1E6.
7) P.O. Box 160, Winnipeg, Man. R3C 2H1.
8) P.O. Box 555, Edmonton, Alta. T5J 2P4.
9) P.O. Box 4600, Vancouver, B.C. V6B 4A4.

CTV TELEVISION NETWORK LIMITED

Head Office: 42 Charles Str. East, Toronto, Ontario M4Y 1T4. **Te:** 416-924-5454. **Telex:** 065-25101.
L.P: Pres. & Man.Dir: Murray Chercover. Exec.Vice-Pres: Donald W. Coyle. Dir.Inf. & Markship Sce's: John T. Coleman.
Stations (Affiliates which own CTV stock): +169 relay stations.

Location	Call	chA	kW(ERP)
1) St. John's, Nfld.	CJON-TV	6	110/22.5
2) Halifax, N.S.	CJCH-TV	5	100/20
3) Sydney, N.S.	CJCB-TV	4	180/108
4) Moncton, N.B.	CKCW-TV	2	25/15
5) Montreal, P.Q.	CFCF-TV	12	325/160
6) Kitchener, Ont.	CKCO-TV	13	325/65
7) Ottawa, Ont.	CJOH-TV	13	178/35.6
8) Sudbury, Ont.	CKSO-TV	5	100/30
9) Toronto, Ont.	CFTO-TV	9	325/49
10) Winnipeg, Man.	CKY-TV	7	325/65
11) Regina, Sask.	CKCK-TV	2	100/20
12) Saskatoon, Sask.	CFQC-TV	8	325/180
13) Calgary, Alta.	CFCN-TV	4	100/50
14) Edmonton, Alta.	CFRN-TV	3	180.3/90.43
15) Vancouver, B.C.	CHAN-TV	8	164/81

Addresses
1) P.O. Box 2020, St. John's, Newfoundland.
2) 2885 Robie Str, Halifax, Nova Scotia.
3) Hardwood Hill, P.O. Box 469, Sydney, Nova Scotia.
4) P.O. Box 5004, Moncton, New Brunswick.
5) 405 Ogilvy Ave, Montreal, Quebec H3N 1M4.
6) 864 King Str. West, Kitchener, Ontario.
7) P.O. Box 5813, Station "F", Ottawa, Ontario K2C 3G6.
8) P.O. Box 400, Sudbury, Ontario.
9) P.O. Box 9, Toronto, Ontario M4A 2M9.
10) Polo Park, Winnipeg, Manitoba R3G 0L7.
11) P.O. Box 2000, Regina, Saskatchewan S4P 4E5.
12) 216 First Avenue North, Saskatoon, Saskatchewan.
13) Broadcast House, Calgary, Alberta.
14) Broadcast House, Postal Station "E", Edmonton, Alberta.
15) P.O. Box 4700, Vancouver 3, British Columbia.

LES TELEDIFFUSEURS ASSOCIÉS (TVA)

Head Office: Box 2026, Quebec G1K 7N2.

Stations	Call	chA	kW(ERP)
1) Quebec	CFCM-TV	4	100/15
2) Chicoutimi	CJPM-TV	6	61/6.7
3) Sherbrooke	CHLT-TV	7	316/100
4) Montreal	CFTM-TV	10	325/160
5) Hull	CFVO-TV	30	727/145

Addresses
1) Box 2026, Quebec G1K 7N2.
2) Box 600, Chicoutimi.
3) 3330 Ouest rue King, Sherbrooke J1L 1C9.
4) 1425 rue Alexandre de Sève, Montréal H2L 2V4.
5) 259 Boulv. St. Joseph, Hull J8Y 3X7.

OFFICE DE RADIO TELEVISION DU QUEBEC

(ORTQ-Educational).
Addr: 1000 rue Fullum, Montréal H2K 3L7.
Stations: Montréal CIVM-TV chA17 1212/242kW, Québec CIVQ-TV chA15 1298/259kW (relay).
D.Prgr: 0000-0300.

THE ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY

Addr: P.O. Box 200, Station Q, Toronto, Ont. M4T 2T1.
Te: (416)484-4600.
L.P: Chmn: T.R. Ide. Exec.Dir: David M. Walker. Gen.Mgr: P.G. Bowers. Film Buyer: A. Bressey.
Station: CICO-TV chA19 1080/108kW – **D.Prgr:** 1300-0400.

PRIVATELY OWNED COMMERCIAL TV STATIONS

There is a total of 82 private television companies of which most also broadcast in colour. The number of relay st's are approx. 200.

GREENLAND

AFRTS (US Air Force)

Addr: Søndrestrømfjord Air Base, 4684th Air Base Group, APO New York, NY 09121 – Thule Air Base, 4683rd Air Base Group, APO New York, NY 09023.
Stations: Søndre Strømfjord chA8 0.12kW, Thule chA8 0.1kW.

ST. PIERRE ET MIQUELON

FRANCE REGION 3

Addr: B.P. 7, St. Pierre et Miquelon.
L.P: See radio.
Station (System K' 625 lines): chK'4 0.05kW H.
D.Prgr: 0915(Wed 0845, Sat 0800, Sun 0700)-0200(exc. Mon).
TV-sets: 1730.

USA

ABC TELEVISION DIVISION

Addr: 1330 Ave. of the Americas, New York, N.Y. 10019.
L.P: Pres. TV Division: Frederick S. Pierce. ABC-TV Network: Pres: James Duffy; ABC-TV owned stations: Pres: Richard O'Leary.
Owned stations: WABC-TV/New York(VP/Gen.Mgr: Kenneth MacQueen) – WLS-TV/Chicaggo(VP/Gen.Mgr: Lew Erlicht – KGO-TV/San Francisco(VP/Gen.Mgr: Russ Coughlan) – KABC-TV/Los Angeles(VP/Gen.Mgr: John Severino) – WXYZ-TV/Detroit(VP/Gen.Mgr: Jim Osborn).

CBS, Inc.

Addr: 51 West 52nd Str, New York, N.Y. 10019. **L.P:** Chmn: Williams S. Paley. Pres: Arthur R. Taylor. CBS/Broadcast Group: Pres: John A. Schneider. Vice-Pres. & Asst. to the Pres: Gene P. Mater. CBS TV Network: Pres: Robert Wussler. Vice-Pres. & Asst. to the Pres: John P. Cowden. Vice-Pres. Operations and Engineering: David White. Vice-Pres. Prgrs: B. Donald Grant. Vice-Pres. Sales: Frank M. Smith Jr. Vice-Pres. Press Inf: Barrie D. Richardson. CBS TV-Stations: Pres: D. Thomas Miller.
Owned stations: WCBS-TV, New York; WBBM-TV, Chicago; KNXT, Los Angeles; WCAU-TV, Philadelphia; KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY

Addr: 30 Rockefeller Plaza, New York, N.Y. 10020.
L.P: Chmn. of Board: David C. Adams. Pres: Julian Goodman. Vice-Pres. Public Relations: Robert D. Kasmire. Vice-Pres. Corporate information: M.S. Rukeyser Jr. NBC Television Network: Pres: Don Durgin.

NBC Television Stations: WNBC-TV, New York; WRC-TV, Washington; WMAQ-TV, Chicago; WKYC-TV, Cleveland; KNBC, Los Angeles.

ARMED FORCES RADIO & TV SERVICE

Stations: See respective countries where st's are located.

TV STATIONS operating in the USA: please refer to page ?

CENTRAL AMERICA and the CARIBBEAN

ANTIGUA

ANTIGUA & BARBUDA BROAD. SERVICES

(Government Owned and Operated).
Addr: P.O. Box 1280, St. John's, Antigua.
L.P: Gen.Mgr: Campbell Matthew.
Station (System M): ABS-TV chA10 22/4.5kW H.
Relay: Montserrat chA7 1kW.
D.Prgr: 2230-0300. **Tests:** 2130-2230.
TV-sets: 15.000.

BARBADOS

CARIBBEAN BROADCASTING CORP. (Gov. Comm.)

Addr: P.O. Box 900, Barbados. **Te:** 92041. **Cable:** Cabroco.
L.P: Gen.Mgr: I. Gale. Dir.Tec: J. Hyndman.
Station: CBC-TV chA3 60/30kW.
D.Prgr: 2130-0230.
Colour TV: Approx. 75% of weekly programming using NTSC system – **TV sets:** 44.000 (incl. 4.000 colour sets).
ALF: US$6.00.

COSTA RICA

TELETICA (Comm.)

Addr: Apt. 3876, San José. **Te:** 222233.
L.P: Pres: O. de Picado. Mgr: A. Carballo. Dir.Tec: G. Guzmán. Film Buyer: R. Sanchez. Dir. of Prgrs: J. Salazar.
Stations (System M): Rancho Redondo chA7 50/25kW.
Relay st's: Buena Vista chA11 3.5/1.75kW, Palmira chA5 1.2/0.6kW, Volcan Irazu chA7 1.5/0.75kW, Golfito chA5 1.2/0.6kW, Santa Elena chA12 1.2/0.6kW.
D.Prgr: 1630-0500.

R. TELEVISION TIC-TAC (Comm.)

Addr: Apt. 4666, San José. **Te:** 223334. **Cable:** Tic tac.
L.P: Gen.Mgr. & Film Buyer: A. Vargas V. Dir.Tec: C. Arancibia S. Dir.Prgrs: N. Hoffman.
Station: Volcan Irazu chA4 78/39W H, San José chA9 (relay) 3/1.5kW.
D.Prgr: 2200-0430.

CORPO. COSTARRICENSE DE TELEVISION (Comm.)

Addr: P.O. Box 2860, San José. **Te:** 210255.
L.P: Pres: M. Sotela. Gen.Mgr. & Film Buyer: J.J. Ortiz. Dir.Tec: Eng. J.M. Anjos.
Stations: chA2 150/75kW, chA6 330/33kW (both at Volcan Irazu).
D.Prgr: 1700-0500.

TELEONCE (Comm.)

Addr: P.O. Box 5542, San José. **Te:** 213452.
L.P: St.Mgr: J. Villaraus G. Dir.Tec: J.A. Zuñiga. Film Buyer: R. Argiolagos.
Station: chA11 1/0.5kW (Llano Grande, Cartago).
D.Prgr: 2130-0600.
TV-sets: 155.000.

CUBA

No recent information available.
Stations: Pol H(no calls used).

ch	Location	Net.	ch	Location	Net.
2	La Habana	2	7	Baracoa	?
	Ciego de Avila	?	8	San Cristóbal	2
	Santiago de Cuba	2		Santa Clara	6
3	Holguin	6	9	Matanzas	6
4	Camagüey	2	12	Pinar del Rio	6
5	Santa Clara	2	13	Matanzas	2
6	La Habana	6		Guantánamo	?
	Camagüey	6			

D.Prgr: 1630-0600.
Televisión Nacional Canal 2(TNC-2); Televisión Nacional Canal 6(TNC-6).
TV-sets: 650.000.

AFRTS (US Navy)

Addr: US Naval Base, P.O. Box 22, FPO New York, NY 09406.
Station: Guantanamo Bay chA8 0.1kW.

DOMINICAN REPUBLIC

RADIO TELEVISION DOMINICANA (Educ, Comm.)

Addr: P.O. Box 969, Sto. Domingo. **Te:** 689-2120. **Cable:** Ratdo.
L.P: Dir.Gen: R.A. Font Bernard. Dir.Tec: L. Moscosco Espinosa.
Stations (System M): chA4 5/1kW H, chA5(Alto Bandera, La Vega) 5/1kW, chA9(La Cumbre), chA12(Pto. Plata) 1/0.2kW, chA12(La Romana) 5/1kW(satellite).
D.Prgr: 1700-0500.

RAHINTEL TELEVISION (Comm.)

Addr: Casilla 1220, Sto. Domingo. **Te:** 533-1025.
L.P: Gen.Mgr: Pedro P. Bonilla. Dir.Tec: Juan Salazaar.
Stations: chA7(Sto. Domingo) 35-17.5kW, chA11 (Sto.Cerro) 5/2.5kW, chA7(Santiago) 5/2.5kW+ satellite(Navisa) ch70 3/1.5kW.
D.Prgr: 1700-0500.

CORPORACION DOMINICA DE RADIO Y TELEVISION (Color vision) (Comm.)

Addr: Calle Emilio A. Morel Ensanche La Fe, Sto. Domingo. **Te:** 566-5876.
L.P: St.Dir: M. Quiroz.

Stations: chA9(Sto. Domingo) 5/0.3kW, chA2(Santiago)5/2kW(satellite), chA9(La Romana) 0.5kW(satellite), chA9(Pto. Plato)(translator).
D.Prgr: 1700-0500.

INSTITUTO NACIONAL DE ELECTRONICA (Tele-Inde) (Comm, Educ.)

Addr: Calle 30 de Marzo 80, Sto. Domingo. **Te:** 688-4643.
Station: HIND-TV chA13 1/0.2kW.
D.Prgr: 2100-0400.
TV-sets: 160.000.

EL SALVADOR

CANALES DE TELEVISION EDUCATIVA (Gov.)

Addr: Ministerio de Education, Ap. Postal 1754, Nueva San Salvador. **Te:** 280499.
L.P: Dir.Gen: Lic. R. Mena López. Dir.Tec: R. Henriques Cotto.
Stations: YS-TVE chA8, A10, A14, A20.
D.Prgrs: Mon-Fri 1300-0300; Sat/Sun 1730-1930, 0000-0200.

CANAL DOS S.A. (Comm.)

Addr: Ap. Postal 720, San Salvador. **Te:** 23-6744. **Cable:** Teledos.
L.P: Pres: B. Eserki. Gen.Mgr: R. Calvo. Dir.Tec: R. Orantes.
Station (System M): YSR-TV chA2 100/25kW.
D.Prgr: 1700(Sun 1500)-0600.

CANAL 4 (Comm.)

Addr: Ap. Postal 720, San Salvador. **Te:** 230710.
L.P: Pres: B. Eserki. Gen.Mgr: R. Flores. Dir.Tec: A. Figueros.
Stations: YSU-TV chA4 75/37.5kW.
D.Prgr: 2100(Sat/Sun 1500)-0600.

CANAL 6 (Comm.)

Addr: Km. 6, Carretera Panamericana a Santa Tecla, San Salvador. **Te:** 235122.
L.P: Pres: B. Eserski. Gen.Mgr: S. Iraheta. Dir.Tec: O. Romeo Guzmán.
Station: YSLA-TV chA6.
D.Prgr: 2300(Sat/Sun 1700)-0600.
TV-sets: 135.500.

GUADELOUPE

FRANCE REGIONS 3 (FR3)

Addr: Pointe á Pitre. **Te:** 821320.
L.P: See radio.
Stations (System K'625 lines): Arnouville chk'8 0.1kW H. Citerne chK'5 0.5/0.1kW H, Morne a Louis chk'6 0.03kW.
D.Prgr: 1900-0230.
TV-sets: 15.000 – **ALF:** 140 Frcs.

GUATEMALA

RADIO/TELEVISION GUATEMALA SA (Comm.)

Addr: Apt. 1367, Guatemala. **Te:** 42492.
Cable: Teletenango.
L.P: Pres: E. Barrios P. St.Mgr: W.G. Campbell. Dir.Tec: F. Licht.
Station (System M): TGV-TV chA3 100/25kW H + 3 repeaters.
D.Prgr: 1800-0600.

TELE ONCE (Comm.)

Addr: Ca. 20, 5-02, Zona 10, Guatemala. **Te:** 682068.
Cable: Teleonce.
L.P: Dir: A. Mourra. Dir.Tec: C. Linde.
Station: TGMO-TV chA11 10/5kW.
D.Prgr: 2200/0500.

TELEVICENTRO (Comm.)

Addr: 3a Calle 6-24, Zona 9, Guatemala. **Te:** 65646. **Cable:** TVsiete.
L.P: Dir.Gen: Dr. J. Villanueva P. Dir.Tec: M. Mazariegos.
Station: chA7 108/22kW H (repeaters chA6 and chA13) – **D.Prgr:** 1800-0600.
TV-sets: 150.000.

HAITI

TELE-HAITI (Comm.)

Addr: P.O. Box 1126, Port-au-Prince. **Te:** 22121. **Cable:** Telehaiti.
Stations (System M): ch2 French, ch4 English.
TV-sets: 13500.

HONDURAS (Rep.)

COMPANIA TELEVISORA HONDURENA, SA (Comm.)

Addr: Apt. Postal 734, Tegucigalpa. **Te:** 2-5514.
L.P: Dir.Gen: J.R. Ferrari. Dir.Tec: S. Flores.
Station (System M): HRTG-TV chA5 4/2kW V. **Relay sts:** HRSU-TV chA9 20kW(El Socorro), HRYA-TV chA13 7kW(San Pedro Sula)+2 low power relay sts.
D.Prgr: 1700-2000, 2300-0500.
TV-sets: 48.000.

JAMAICA

JAMAICA BROADCASTING CORPORATION (Comm.)

Addr: 5 South Odeon Ave, Kingston.
L.P: See radio.
Station: HWT chA11 0.5/0.5kW. **Relay sts:** Coopers Hill chA7 33kW, Port Antonio chA8 1kW, Kempshot chA8 0.01kW, Montego Bay chA9 16.5kW, Yallahs chA9 1kW, Oracabessa chA12 2kW, Spurtree chA13 33kW, Morant Point chA13 0.025kW(Pol H).
D.Prgr: W 2230-0430(Sat/Sun 1430-0500).
TV-sets: 111.000.

MARTINIQUE

SOCIETE FRANCE REGION FR-3

Addr. and L.P: See radio.
Stations (System K'625 lines): Fort de France chK'4 0.5kW, La Trinité chK'6 0.06kW, Le Precheur chK'6 0.05kW, Morne Aca chK'8 0.05kW, Aileron chK'8 0.1kW.
D.Prgr: 2200(Sun 2000)-0300.
TV-sets: 20.050 – **ALF:** N.Frcs. 140,-.

MEXICO

STATIONS. Pol H. "L" in Netw column indicates station originates local programming. Powers shown are visual ERP.
Call - - - TV,*) inactive chA.

	Call	ch	kW	Net.	Location
1)	XHIA	2	15	L+5	Torreón
2A)	XEPM	2	40	2	Cd. Juárez
3)	XHCH	2	54	L+2	Chihuahua
4A)	XEW	2	100	2	México
5A)	XHAP	2	1.2	2	Acapulco
6)	–	2	0.1	2	Atoyac d Alvarez
8)	XHI	2	8	L	Cd. Obregón
9)	XHFA	2	1.5	L+2	Nogales
10)	XHCR	2	(CP)	L+8	Matamoros
11A)	XEFE	2	60	L	Nuevo Laredo
12)	XHFM	2	14.2	8	Veracruz
13A)	XHBC	3	100	L	Mexicali
14A)	–	3	0.1	TCM	Sabinas, Coah
15)	XHJMA	3	13.5	5	Hidalgo del Parral
16A)	XEFB	3	100	L	Monterrey
17)	XHP	3	30	L+8	Puebla
4B)	XEZ	3	100	2	Cerro del Zamorano, Qro
18)	XHQ	3	24	L	Culiacán
19)	XHCV	3	12.2	2	Coatzacoalcos
20A)	XHY	3	120	L	Mérida
21)	XHBO	3	5	(CP)	Oaxaca, Oax
22)	XELN	4	4	L	Torreón
23)	XHIT	4	43	13	Chihuahua

	Call	ch	kW	Net.	Location
24A)	XHTV	4	100	L+4	México
7B)	XHG	4	20	L	Guadalajara
25)	XHAF	4		5	Tepic, Nay
26)	XHBS	4	110	2	Los Mochis/Cd. Obregón
27A)	XHD	4	40	2	Tampico
27B)	–	4	–	13	Yucatan
28)	XHAQ	5	72	L	Mexicali
29)	XHAE	5	8	2	Saltillo, Coah
30)	XHCC	5	1	TCM	Colima, Col.
2B)	XEJ	5	37.3	L	Cd. Juárez
31)	XHFI	5	6	?	Chihuahua
32A)	XHGC	5	100	L+5	México
33A)	XHZ	5	100	5	Cerro del Zamorano, Qro
32B)	XHAJ	5	100	5	Las Lajas, Ver
32G)	–	5	–	2	Cd. Cuauhtemoc, Chih.
34)	XETV	6	100		Tijuana
14B)	–	6	0.1	TCM	Piedras Negras, Coah
35)	XEHL	6	84	2	Guadalajara
36)	XET	6	80	5	Monterrey
37)	XHTI	6	(CP)		Puebla, Pue
38)	XEWH	6	1.6	2	Hermosillo
38A)	–	6	–	2	Cd. Delicias, Chih.
39)	XHAD	7	16.6	L+5	Saltillo
40)	XHBZ	7	0.1	2	Colima
41)	XHAA	7	24.5	2	Tapachula
42)	–	7	0.2	2	Cd. Guzmán
24B)	XEX	7	325	4	Paso de Cortés, México
43)	XHBN	7	0.4	2	Oaxaca
44)	–	7	2	2	Chetumal
45)	XHBT	7	18.5	2	Culiacán
46)	XHMZ	7	8.5	5	Mazatlán
47)	XHTN	7	(CP)	–	Nogales, Son.
48)	XHAB	7	80	2	Matamoros
27B)	XHGO	7	50	L	Tampico
49A)	XHBD	8	250	2	Aguascalientes
50)	XHTX	8	8.15	L+2	Tuxtla Gutiérrez
51)	XHBU	8	12	2	Cd. Jiménez, Chih.
33B)	XHTM	8	190	L+8	Méxiico
52)	XHFN	8	(CP)		Monterrey
53)	XEUS	8	1.6	L	Hermosillo
54)	–	8	1.7	2	Córdoba
4C)	XHAH	8	316	2	Las Lajas, Ver.
55)	XHBF	8	4.5	2	Navojoa
56)	XHBQ	8	5.5	2	Zacatecas
57)	XHBW	9	5	2	Monclova
58)	XHGA	9	75	5	Guadalajara
4D)	XEQ	9	316	2	Pasco de Cortés, México
32C)	XHTQ	9	47.4	8	Querétaro
59)	XHFW	9	50	5	Tampico
20B)	XHTP	9	95	2	Mérida
60)	XHK	10	7	L	La Paz
61)	XHA	10	0.8	2	Durango
62)	XHL	10	150	L+2	León
63)	XHKW	10	2.8	2	Morelia
64)	XHCB	10	0.5	2	Tepic
16B)	XHX	10	316	2	Monterrey
65)	XHBK	10	(CP)	8	Cd. Obregón
66)	XHTH	10	2.7	5	Hermosillo
24C)	XHAI	10	325	4	Las Lajas, Ver.
67)	XHO	11	10.9	2	Torreón
68)	XEIPN	11	300	L	México
69)	XHTK	11	2.4	2	Cd. Victoria
11B)	XHBR	11	3.5	2	Nuevo Laredo
70)	XEWT	12	60	L	Tijuana
71)	XHAN	12	13.7	2	Campeche
14C)	–	12	0.1	TCM	Allende, Coah.
14D)	XHND	12	3.8	TCM	Durango, Dgo.
72)	XHHK	12	2	2	Chilpancingo
73)	XHAW	12	100	L	Monterrey
74)	XHCG	12	2	5	Los Mochis
75)	XHOW	12	29.9	L+2	Mazatlán
76)	XHAK	12	2	TCM	Hermosillo
49B)	XHAG	13	3.8	5	Aguascalientes
77)	XHDF	13	190	L	México
78)	XHBL	13		5	Culiacán
79)	XHLL	13	7	2	Villahermosa
80)	XHUT	13	0.3	5	Cd. Victoria
81)	XHST	13	54	L	Mérida
13B)	XHBM	14	41.5	2	Mexicali
82)	XHS	23	2.8	L	Ensenada
83)	XHBJ	45	171.5	(CP)	Tijuana, BC

(Low power relay stations less than 0.1kW omitted).

TELEVISION CULTURAL DE MEXICO (Gov.). Addr: Secretaría de Comunicaciones y Transportes, Comisión de Radiodifusión, Torre de Comunicaciones, Insurgentes Sur, México, DF. Transmits programmes selected from all México DF stations (plus some TCM-produced programmes) to a network of 20 low-power relay stations, in addition to those listed above.

TELEVISA, S.A: Addr: Edificio Televicentro, Chapultepec 18, México 7, DF. **Te:** 585-33-33. **L.P:** Chairman of the Board: Romulo O'Farrill, Jr. Pres: Emilio Azcárraga Milmo. Exec. Vice-Pres: Lic Miguel Alemán Velasco. Group Vice-Pres: Alejandro Sada. V.P. for International Affairs: Guillermo Cañedo.
Studio Addr: Blvd. López Mateos 232, Mexico 20, DF. **Te:** 548-68-40. Operates four networks.

Cadena Canal 2: Key station: XEW-TV. **L.P:** Operations Mgr: Lic. José Alanís. Dir.Tec: Ing. F. Bobadilla. **D.Prgr:** W 2000-0630, Sat 2100-0630, Sun 1645-0630.

Cadena Canal 4: Key station: XHTV. **L.P:** Operations Mgr: J.O. Cano. **D.Prgr:** W 2000-0630, Sat 2100-0730, Sun 2030-0630.

Cadena Canal 5: Key station: XHGC-TV. **L.P:** Operations Mgr: G. Van Rankin. Dir.Tec: Ing. A. Serhant. **D.Prgr:** W 2000-0630, Sat 1830-2130, 2330-0630, Sun 1715-0530.

Cadena Canal 8: Key station: XHTM-TV. **L.P:** Operations Mgr: Gonzalo Carbajal. Dir.Tec: M. Diaz Rueda. **D. Prgr:** W 2200-0630, SSat 2000-0630, Sun 1930-0630.

1) Corona 330, Torreón, Coah – Gte: D. Noé.
2) AB8 Television de la Frontera, Ap. 111, Cd. Juárez, Chih. Gte: P. Meneses H. 2B) 2300-0600.
3) Ap. 874, Chihuahua, Chih – Gte: M. Gonzalez de la O.
4A-D) Televisa, Cadena Canal 2, Proyección Nacional (see entry above).
5AB) Cerro de los Lirios, Ácapulco, Gro.
6) Atoyac de Alvarez, Gro – Dir.Tec: Ing. F. Leal.
7AB) Televisora de Occidente, Alemania 1469, Guadalajara, Jal – Gte: G. Pickering J. 7B) 2100-0530.
8) Televisora del Yaqui, Miguel Alemán 424 Sur, Cd. Obregón, Son – Sub.Gte: C. Sandoval R. 2200-0500.
9) Televisión del Noroeste, Ap. 600, Nogales, Son.
10) Av. Cuauhtémoc y Doce, Matamoros, Tams.
11AB) Ap. 4, Nuevo Laredo, Tams. – Gte: R. Esparza. 11A) 2130-0500.
12) Televisión del Golfo, Simón Bolívar 1517, Veracruz, Ver – Gte: R. Lugo A.
13AB) Televisora de Mexicali, Ap. 1356, Mexicali, BC – Gte: R. Sánchez de Aparicio. 13A) 2130-0830.
14A-D) Televisión Cultural de México (see entry above).
15) Ap. 219, Hidalgo del Parral, Chih – Gte: L. Holguîn C.
16AB) Televicentro de Monterrey, Espinoza Pte. 780, Monterrey, NL – Gte: J.R. Garza G. Dir.Tec: A. Támez. 16A) 1700-0600.
17) Televisión de Puebla, Zacatlán 42, Col. La Paz, Puebla, Pue – Gte: C.P. Tomás Rodrîquez L.
18) Ap. 337, Culiacán, Sin – Gte: C. Sandoval R. 2330(Sun 2300)-0500.
19) Ap. 65, Coatzacoalcos, Ver –
20AB) Televisora de Yucatán, Ap. 152, Mérida. Yuc Gte: C.P. Andrés Garcia Lavin. 20A) 2300-0500(Sun 1500-1900, 2300-0415).
22) Televisora de la Laguna, Urraza y Rodríguez, Torreón, Coah – Gte: V. Sergio P.
23) Zarco 3604, Chihuahua, Chih – Gte: R. Uranga P.
24ABC) Televisa, Cadena Canal 4 (see Televisa entry above).
26) Los Mochis, Sin – Dir.Tec: G. Silva A.
27AB) Televisora del Golfo, Bolívar 104, Tampico, Tams – Gte: F. Azcárraga. Dir.Tec: Ing. J. Ruiz V. 27B) 2230-0445(Sun also 1600-1900).
28) Edif. Bertha Mina 200, Mexicali, BC – Gte: E. Hage F.
31) Libertad 1300, Chihuahua, Chih –
32ABC) Televisa, Cadena Canal 5 (see Televisa entry above).
33AB) Televisa, Cadena Canal 8 (see Televisa entry above).
34) Ap. 121, Tijuana, BC. (Note: Operates as USA station as ABC network affiliate for San Diego; subject to revocation).
35) Television Tapatia, Ap. 5, Guadalajara, Jal – Gte: Lic. M. Bauche G. 2130, Sat 2100, Sun 2200)-0600.
36) Jiménez Nte. 730, Monterrey, NL –

38) Veracruz y Loaiza, Hermosilli, Son –
39) Corona Pte. 348, Saltillo, Coah – Gte: A. Jaubert A.
40) Colima, Col – Dir.Tec: Ing. T. Tello.
41) 11 Ave. Nte. y 3a Calle Ote, Tapachula, Chis –
42) Cd. Guzmán, Jal – Dir.Tec: Ing. F. Leal.
43) Oaxaca, Oax – Dir.Tec: Ing. J. Macotela.
44) Chetumal, Q.R. – Gte: A. Jandall.
45) Ap. 337, Culiacán, Sin – Gte: Lic. Carlos Gama D.
46) Carretera Internacional y Gaviotas, Mazatlán, Sin – Gte: O. Pérez G.
48) Cuauhtémoc y Doce, Matamoros, Tams –
49AB) Cerro de los Gallos, Aguascalientes, Ags –
50) 14 Pte. y 13 Nte. Tuxtla Gutiérrez, Chis –
52) Instituto Tecnológico, Monterrey, NL (cultural).
53) Universidad de Sonora, Hermosillo, Son. (cultural).
54) Córdoba, Ver – Gte: J. Torres C.
55) Navojoa, Son – Dir.Tec: G. Silva A.
56) Zacatecas, Zac – Gte: R. Martinez R.
57) Monclova, Coah – Gte: R. Burciaga.
58) 16 de Septiembre 780, Condominio Guadalajara, Guadalajara, Jal – Gte: Ing. M. Apodaca C.
59) Ap. 797, Tampico, Tams – Gte: Ing. C. Flores M.
60) Ap. 222, La Paz, BC. Sur – Dir: F. King.
61) Ap. 405, Durango, Dgo – Gte: B.B. De Stevenson.
62) Ap. 751, Leon, Gto – Gte: F. Galindo R.
63) Acueducto y Zaragoza, Morelia, Mich.
64) Tepic, Nay – Gte: R. Mondragón G.
65) Av. Rodolfo Elías Calles y Durango, Cd. Obregón, Son
66) Pesqueira y Comonfort, Hermosillo, Son.
67) Av. Urraza y Rodriguez, Torreón, Coah –
68) Instituto Politénico Nacional, Prolong. Carpio 475, Casco de Santo Tomás, Mexico 17, DF – Dir.Gen: Ing. R. Porras B. Prgr.Dir: A. Cuspinera O. W 2200-0530, Sat 1800-0500, Sun 2300-0500 (cultural).
69) Argentina Sur 415, Cd. Victoria, Tams –
70) Ap. 12, Tijuana BC – Gte: J. Márquez. 0000-0730.
71) Campeche, Camp – Dir.Tec: Ing. E. Castro R.
72) Chilpancingo, Gro – Gte: E. Naime.
73) Docevisión, Estrellas de Oro, Condominio del Norte Piso 27, Monterrey, NL – Pres: J.D. Gonzalez. Gte: F.A. González. 1815(at 1830, Sun 1930)-0600.
74) Ap. 698, Los Mochis, Sin – Gte: S.E. Orozco.
75) Ap. 221, Mazatlán, Sin – Gte: C.H. Gama D.
76) Tele-12, Blvd. Transversal Esq. I. Romero, Hermosillo, Son – Gte: Lic. J. José E.
77) Trecevisión Activa, Torre Latinoamericana, San Juan de Letrán 2, México 1, DF – W 1755-0730, Sat 1550-0730, Sun 1515-0800 (Gov).
78) Rosales y J. Carrasco 620, Culiacán, Sin.
79) Paseo Usumacinta y Ayuntamiento, Villahermosa, Tab –
80) Hernán Cortés y Carretera Nacional, Cd. Victoria, Tams – Gte: P. Luján.
81) Sistema Teleyucatán, Av. Pérez Ponce y Paseo Montejo. Mérida, Yuc – Gte: O. Reguera B.
82) Ap. 1346, Ensenada, BC – Gte: Ing. A. Badillo V. 0000-9800.

TV-sets: 4.100.000 (incl. 325.000 colour sets).

NETHERLANDS ANTILLES

TELECURACAO

Addr: P.O. Box 415, Curaçao. **Te:** 13140. **Cable:** Telecuraçao.
Station (System M): chA8 2kW H.
D.Prgr: 2000-0345..

TELEARUBA (Comm.)

Addr: P.O. Box 392, Aruba. **Te:** 7302. **Cable:** Telearuba.
Station: chA12 3kW.
D.Prgr: 2030-0345.
A TV st. in Philipburg is operating on ch 3. No details available.
TV-sets: 36.000(Curaçao+Aruba).

NICARAGUA

TELEVISION DE NICARAGUA (Comm.)

Addr: Apt. 1505, Managua. **Te:** 26651. **Cable:** Tevenic.
L.P: Pres. and Owner: A. Somoza D. Gen.Mgr: R.O. Caño. Tech.Dir: O. Garcia R.
Station (System M): YNSA-TV chA6 6/3kW H.
D.Prgr: 1800-0500.

TELEVICENTRO DE NICARAGUA

Addr: Ap. 1741, Managua. **Te:** 60118.
L.P: Dir: O. Sacasa R.
Station: YNTC-TV chA2 20/50kW. **Repeaters:** chA7 1/1kW (Chinandega), chA9 1/1kW (Matagalpa).
D.Prgr: 2000-0600.

TELEVISION COMERCIAL S.A. (Tecosa)

Addr: Ap. 1741, Managua. **Te:** 60032.
L.P: Dir: O. Sacasa R.
Station: YNLG-TV chA12 50/20kW.
D.Prgr: 2200-0600.
TV-sets: 90.000.

PANAMA

CIRCUITO RPC-TELEVISION (Comm.)

Addr: Apt. 1795, Panama 1. **Te:** 250160.
L.P: Pres: F. Eleta. A. Dir.Tec: L. O'Meally.
Stations (System M): Panama HOH21-TV chA4 288/28.8kW, La Palma chA5 1/0.1kW, David chA6 25/12.5kW, Sona chA7 95/3.98kW, Las Margaritas chA12 25/12.5kW, Bocas del Toro chA12 10/1kW, Santiago chA3 16/3.2kW.
D.Prgr: 1600(Sun 1400)-0500.
Color: NTSC system used.

TELEVISORA NACIONAL SA (Priv. Comm.)

Addr: Apt. 8371, Panama. **Te:** 61-3222. **Cable:** Telena.
Stations: HOU34-TV chA2 90/45kW. Repeaters: Las Margaritas chA6 20/10kW, Altamira chA9 8/4kW, C. de Piedra chA2 1.25/0.625kW.
D.Prgr: 1630-0500.

AFRTS, Canal Zone (US Army)

Stations: Fo. Clayton chA8 5kW, Fo. Davis chA10 5kW.
TV-sets: 186.000(incl. 6000 color sets).

PUERTO RICO

Stations: All Comm. exc. 2) and 5): chA.

Call	ch	kW	Call	ch	kW
1) WKAQ-TV	2	53.7/10	6) WRIK-TV	7	116/22.4
2) WIPM-TV	3	35/3.5	7) WSUR-TV	9	57.5/7.24
3) WAPA-TV	4	53.7/8.1	8) WKBM-TV	11	200/39.8
4) WORA-TV	5	95.5/19.1	9) WOLE-TV	12	17.8/5
5) WIPR-TV	6	53.7/5.37	10) WVEO-TV	44	995/100

1) Telemundo Inc, P.O. Box W, San Juan 00936.
2) Dept. of Education, Box 449, Mayaguez 00708 – Dir.Gen: J.M. Garcia. Dir.Tec: J.A. Marty. 2000-0300.
3) WAPA-TV Broadc. Corpo, GPO Box 2050, San Juan 00936.
4) Quality Telecasting Corpo, Box 43, Mayaguez 00708.
5) Dept. of Education, Box 909, Rio Pedras 00919.
6) Ponce TV Corpo, Box A, San Juan 00902.
7) Box 471, Ponce 00732.
8) Box 4189, San Juan 00905.
9) Western Broadc. Corpo. of Puerto Rico, Box 1194, Mayaguez 00708 – Dir.Gen: A. Nazario. Dir.Tec: M. Pérez.
10) Video Empresas Del Oeste Inc, Box W, GPO, Aguadilla 00603.

AFRTS (US Mil.)

Stations: Ramey chA21 0.1kW, Roosevelt Roads chA40 7kW, Ft. Allen ch40 1kW, Vigues Isl. chA56 1W.
Addr: Ramey Air Force Base, Box 265, APO New York, NY 09845 – Roosevelt Roads Naval Station, Box 29, FPO New York, NY 09551.
TV-sets: 631.000 (incl. 25.100 colour sets).

ST. KITTS

ZIZ TELEVISION (Gov, Comm.)

Addr: Springfield, Basseterre, St. Kitts. **Te:** 2621.
Stations (System M): Basseterre chA5 20/5kW H. (Relay sts:

Basseterre chA2 200/40W, Ottleys chA13 42/8.4W, Sandy Point chA9 15/3W, Nevis chA11 42/2.5W).
D.Prgr: 2200-0200.

TRINIDAD AND TOBAGO

TRINIDAD AND TOBAGO TELEVISION CO. LTD.

Addr: Television House, 11A Maraval Rd, Port of Spain. **Te:** 24141. **Cable:** Television Trinidad.
L.P: Gen.Mgr: F.A. Rawlins. Chief Eng: C.D. Parris. Sales Mgr: L. Rochard. Dir.Prgr: F.A. Muhammad.
Stations (System M): chA2 30/3kW, chA13 2/0.2kW. Relay st: chA13(Tobago) 1.2/0.1kW.
D.Prgr: 2130(Sat/Sun 2100)-0400. **Fi:** A joint priv. enterprise between majority shareholder, Government.
TV-sets: 94.000.

VIRGIN ISLANDS (American)

ISLAND TELERADIO SERVICE, Inc.

Addr: Box 1947, Charlotte Amalie, St. Thomas 00801. **Te:** 774-0300. **L.P:** Gen.Mgr: S.T. Haizlip.
Station: WBNB-TV chA10 52.5/5.2kW.

VIRGIN ISLANDS PUBLIC TV-SYSTEM

Addr: Box 5077, Charlotte Amalie 00801. **L.P:** Gen.Mgr: C.F. Bastian. Dir.Tec: A.O. Peck.
Station: chA12 16.6/3.31kW.

PEOPLE'S BROADC. CORPORATION (Comm.)

Addr: P.O. Box Y, Christiansted, St. Croix 00820. **L.P:** Gen.Mgr: A.L. Swanson. Dir.Tec: J.H. Koch.
Station: chA8 58.5/7.2kW – D.Prgr: 1730-0500.
TV-sets: 31.500.

VIRGIN ISLANDS (British)

Station: ZBTV (Tortola) chA5 5/1kW (satellite of PJF-TV (chA3) St. Maarten, Neth. Antilles.

SOUTH AMERICA

ARGENTINA

Stations: All st's commercial (System N).
TV-sets: 3.925.000.

	Call	chA	kW(ERP)		Call	chA	kW(ERP)
1)	LS86	2	100/50	18)	LV83*	9	70/14
2)	LT83	3	60/12	19)	LU85	9	2.5/1.75
3)	LU89	3	24/3.5	20)	LT81	9	2.8/1.4
4)	LT84	5	37.5/12.5	21)	LV91	9	40/8
5)	LV84	6	1/0.2	22)	LU82	10	4/1
6)	LS82	7	43/22.5	23)	LV80	10	60/15
7)	LU81	7	45/22.5	24)	LW83	10	3.5/0.7
8)	LU84	7	2/0.5	25)	LS84*	11	120/60
9)	LV89	7	14/7	26)	LW82	11	12/2.5
10)	LW80	7	12/6	27)	LU87	11	3/1.5
11)	LW81	7	4/2	28)	LV81	12	43.5/8.7
12)	LU86*	8	40/20	29)	LT85	12	18/3.6
13)	LV82	8	16/4	30)	LU91	12	40/20
14)	LV85	8	10/5	31)	LS85*	13	120/24
15)	LS83*	9	35/17.5	32)	LT80	13	5/2.5
16)	LU80	9	50/12	33)	LT82	13	5/1
17)	LU83	9	2/0.5	34)	LU88	13	3.5/1.75

*operated by State administration: Secretaría de Prensa y Difusion, Buenos Aires.

1) Television La Plata, Calle 36, No. 382, La Plata – 2000-0400 (+3 satellites).
2) Television Litoral S.A, Casilla Correo 123, Rosario – 1400-0400.
3) Ruta 35, Km. 322, Santa Rosa – Dir.Gen: Ing. S. Hernandez. 1800-0300(Sat/Sun 1500-0300).
4) Rader, Radiodif. de Rosario S.A, Av. Belgrano 1055, Rosario – 1430-0330 or 0400(Sat 0430), Sun 1245-0330.
5) TV Rio Diamante, Luzuriaga 360, San Rafael, Mendoza – 2000-0300 (+3 satellites).
6) Primera Televisora Argentina, Viamonte 153, Buenos Aires – Cntr: H. D'Angelo. (relay st's in Rosario, Santa Fé and Chivilcoy) – 1615(Sat/Sun 1300)-0800.
7) Telba S.A, Blandengues 225, 8000 Bahía Blanca – Dir.Gen: Srta. Elsa E. Morel. Dir.Tec: C. Prado – Mon-Fri 1530-1800, 2030-0300; Sat 2130-0300; Sun 2000-0300 (+3 satellites).
8) Neuquen-TV S.A, Casilla Correo 113, Neuquen – 1430-1730, 2000-0330 (+5 satellites).
9) Difusora Mendoza, Garibaldi 7, Mendoza – 1400-0330 (+5 satellites).
10) R. Visión Jujuy, Av. 10 de Abril 749, San Salvadore de Jujuy – 2000-0300(Sat 1930-0300, Sun 1400-1500, 1930-0300).
11) Tele-Siete, Pellegrini 345, Stgo. del Estero – 2000(Sun 1500)-0300.
12) Difusora Marplatense, Av. Luro 2907, Mar del Plata – 1400(Sat/Sun 1500)-0335.
13) Televisora San Juan, Rivadavia 22 Este, 5400 San Juan – Dir.Gen: J.E. Estornell. Dir.Tec: I. del Valle Mendez – 1530-1800, 2030-0330.
14) Dicor S.A, Rosario de Santa Fé 65, Córdoba – 2030-0330.
15) Canal 9-Libertad, Castex 3345, Capital Federal – 1100-0500.
16) Telenueva, Sarmiento 54, Bahía Blanca – 1500-0330.
17) Comodoro Rivadavia TV, Rawson 1459, Comodoro Rivadavia – 2030-0400 (+3 satellites).
18) Cuyo Television S.A, San Martín 1027, Mendoza – 1400-0345.
19) Gobierno de Santa Cruz, Pasteur 54, Río Gallegos, Sta. Cruz – 1845-2300, 0200-0400(Sat/Sun 1715-2300, 0200-0400).
20) TV-Resistencia S.A, Av. Alvear 50, Resistencia, Chaco – 1445-1700, 2115-0400(Sat/Sun 1445-0400).
21) Pelagio B. Luna 585, piso 2, La Rioja, Capital.
22) TV Mar del Plata S.A, Independencia 1163, Mar del Plata – 1500-0300 (+3 satellites).
23) Universidad Nacional de Córdoba, Rivera Indarte 170, Córdoba – 1400-0330.
24) Televisora de la Universidad Nacional, Av. Buenos Aires 296, San Miguel de Tucumán – 1445-0300.
25) Dicon Difusion Contemporanea S.A, Pavon 2444, Buenos Aires – Dir.Gen: R. Pietronave. Dir.Tec: C. Alberto Fernandez – 1400-0400(Sat 0430), Sun 1230-0430.
26) Cortesa, España 465, Salta – 2000(Sat 1700, Sun 1430)-0300.
27) Servicio Official de Televisión, Magallanes s/n, Ushuaia, Tierra del Fuego – Dir.Gen: C. Anildo Henninger. Dir.Tec: F. Mussino. Film Buyer: Edv. Sardi – 1830-0430.
28) Telecor S.A, Av. Fernando Fader 111, Cerro de las Rosas, Córdoba – 1500-0320(Sun 1330-0330).
29) Rioja 161, Posadas, Ms – 1500-0400.
30) P. Garcia Salinas 1815, Trenque Lauquén, BA – 2000(Sat 1400)-0300.
31) Rio de la Plata TV, San Juan 1170, Buenos Aires – Dir.Gen: C.I. Astesino Agote. Dir.Tec: J.B. De Nucci – 1300-0400.
32) Televisora Corrientes, Calle Canal 13 No. 13, Corrientes – 2000(Sat/Sun 1530)-0300.
33) Televisora Santafesina S.A, Blvd. Galvez 840, Santa Fé – 1300-0400 (+3 satellites).
34) Rio Grande TV, Juan Bautista Alberdi 739, Rio Grande, Tierra del Fuego – 1400-1830(or 1900), Sun 1500-2130.

BOLIVIA

EMPRESA NACIONAL DE TELEVISION BOLIVIANA (Gov, Comm.)

Addr: Casilla 900, La Pax.
L.P: Dir.Gen: Ed. La Faye Morris.
Stations (System N): La Paz chA7 5/1kW, Oruro chA10 0.5/1.0kW. (Repeaters at Cochabamba & Santa Cruz).
TV-sets: 70.000.

BRAZIL

All st's comm. exc. where indicated (System M).

ASSOCIÃCAO BRASILEIRA DE EMISSORAS DE RÁDIO E TELEVISÃO (ABERT).

Addr: Rua Paulino Fernandes 32, 4° andar, 20000 Rio de Janeiro, RJ. **Te:** 225 9914.
L.P: Dir.Pres: Admiral Adalberto de Barros Nunes.

DIÁRIOS E EMISSORAS ASSOCIADOS

Addr: Rua Alfonso Bovero 52, Sumaré, São Paulo, S.P.
Stations (relay st's not mentioned):

	ch	kW	Name and location
1)	2	5/2	TV Educativa, Manaus
2)	2	2/0.5	TV Ceará Rádio Clube, Fortaleza
3)	2	2/1	TV Anhanguera, Goiânia
4)	2	30/15	TV Alterosa, Belo Horizonte
5)	2	2/0.5	TV Marajoara, Belém
6)	2	20/10	TV Jornal do Comércio, Recife
7)	2	5.7/1.2	TV Globo, Bauru
7a)	2	–	TV Educativa, Rio de Janeiro
8)	2	100/20	TV Educativa, São Paulo
9)	2	–	TV Alto Uruguai, Erechim
10)	3	2/1	TV Rádio Nacional, Brasília
11)	3	6/1.5	TV Coroados, Londrina
12)	4	2/1	TV Baré, Manaus
13)	4	98/24	TV Aratu, Salvador
14)	4	2/1	TV Vitória, Vitória
7)	4	34/15	TV Globo, Rio de Janeiro
15)	4	–	TV Rádio Clube de Goiânia, Goiânia
16)	4	10/2	TV Difusora, São Luiz
17)	4	2.5/1.25	TV Centro América, Cuiabá
18)	4	33/15.5	TV Itacolomi, Belo Horizonte
19)	4	5/1	TV Guajará, Belém
20)	4	5/2.5	TV Iguaçu, Curitiba
21)	4	–	TV Rádio Clube Teresina, Teresina
22)	4	50/10	TV Tupi, São Paulo
23)	4	–	TV Tuiuti, Pelotas
24)	4	1/0.25	TV Sergipe, Aracaju
25)	5	6/1.2	TV Amazonas, Manaus
26)	5	2/2	TV Itapoan, Salvador
27)	5	10/2	TV Educativa, Fortaleza
28)	5	2/0.7	TV Uberaba, Uberaba
29)	5	–	TV Cidade Branca, Corumbá
30)	5	25/6	TV Piratini, Porto Alegre
7)	5	40/7.5	TV Globo, São Paulo
31)	6	30/6	TV Brasília, Brasília
32)	6	25/3.15	TV Tupi, Rio de Janeiro
33)	6	2/1	TV Morena, Camp Grande
34)	6	5/1	TV Paraná, Curitiba
35)	6	150/18	TV Rádio Clube, Recife
36)	6	1/0.2	TV Cultura, Florianópolis
37)	7	32/16	TV Vila Rica, Belo Horizonte
38)	7	–	TV Esplanada, Ponta Grossa
39)	7	25/2.5	TV Record, São Paulo
40)	7	–	TV Ribeirão Preto, Ribeirão Preto
40a)	7	5/1.2	TV Gazeta de Alagoas, Maceió
40b)	7	–	TV Liberal, Belém
41)	8	5/2.7	TV Alvorada, Brasília
42)	8	20/4	TV Triângulo, Uberlândia
43)	8	10/2	TV Caxias, Caxias do Sul
44)	8	–	TV Rio Preto, São José do Rio Preto
45)	9	2/0.5	TV Borborema, Campina Grande
46)	10	2/1	TV Verde Mares, Fortaleza
7)	10	12/6	TV Globo, Brasília
47)	10	10/5	TV Industrial, Juiz de Fora
48)	10	12.5/2.5	TV Difusora Portoalegrense, Porto Alegre
48a)	11	–	TV Silvio Santos, Rio de Janeiro
49)	11	1/0.5	TV Tibagi, Apucarana
50)	11	10/2.5	TV Universitaria, Recife
51)	11	–	TV Gazeta, São Paulo
7)	12	40/8	TV Globo, Belo Horizonte
52)	12	10/5	TV Paranaense, Curitiba
53)	12	80/40	TV Gaúcha, Porto Alegre
54)	12	1.6/0.8	TV Imembui, Santa Maria
55)	13	12.5/2.75	TV Rio, Rio de Janeiro
56)	13	–	TV Coligadas, de Santa Catarina
57)	13	200/40	TV Bandeirantes, São Paulo
7)	13	61/12	TV Globo, Recife
58)	38	–	TV Ajuricaba, Manaus

1) Rua Major Gabriel-Rua Barcelos, Manaus, AM. Cable: Tele-duc – Dir.Gen. & Film Buyer: R. Gonçalves Nogueria. W 1000-1600, 2140-0100; Sat 2140-0230 (Gov. operated).
2) C.P. 222, Fortaleza, CE. Cable: Prenove. 2000-0300.
3) Av. Goiás 345, Goiânia, GO. 1800-0300.
4) Rua Afonso Pena 867, Belo Horizonte, MG. W 1900-0300, Sun 1400-0215.
5) Trav. Campos Sales 206, Belém, PA. Cable: Provan – Dir.Gen: R.J. Martins. 1700(Sun 1400)-0300.
6) Rua do Imperador 346, Recife, PE – Gen.Mgr: A. Batista de Lima. Dir.Tec: J. Lira Filho. 1430-0330.
7) Rua Von Martius 22, Jardim Botânico, Rio de Janeiro, RJ. Cable: Teveglobo – Dir.Gen: W. Clark Bueno. Dir.Tec: W. da Silveira Britto. Film Buyer: J.B. De Oliveira Sobrinho. Dir. Foreign Rel: J.B. Paiva Chaves. 1330-0530(+14 relay st's).
8) Fundação Padre Anchieta, C.P. 11544, São Paulo, SP. 2010(Sat 1200, Sun 1700)-0300.
9) Rua Soledade 277, Erechim, RS.
10) Av. W-3, Setor de Rádio e TV, C.P. 07/0173, Brasília. 1000-0300(Gov.).
11) C.P. 122, Londrina, PR – Dir.Prgrs: H.M. de Hollanda. Dir.Tec: K. Sampaio. 2000-0300.
12) Estrada do Aleixo, Km 3,5, Manaus, AM – Dir. J.A. Pinheiro. Film Buyer: Maria Porto. 1600-0500.
13) Rua Pedro Gama 31, Salvador, BA – Dir: A. Maluf. Dir.Tec: A. Moyana. 1400-0400.
14) Av. Jerônimo Monteiro 331, Vitória, ES. Cable: Ravito. 2110(Sat 2000, Sun 1900)-0100.
15) Av. Goiás 17, Goiânia, GO.
16) Av. Pedro II 241, São Luis, MA – Dir.Gen: Dr. C.M. Bacelar. Dir.Tec: L. Cardoso de Almeida. 2000-0300.
17) Rua Barão de Melgaço 815, Cuiabá, MT.
18) C.P. 140, Belo Horizonte, MG – Dir.Gen: J. de Oliveira Vaz. Dir.Tec: V.P. Netto. 1500(Sun 1200)-0400.
19) Edif. M.P. da Silvar 25° and, Belém, PA.
20) Jadim Mercês, Curitiba, PR.
21) Rua Burity dos Lopes s/n, Teresina, PI.
22) Rua 7 de Abril 230, São Paulo, SP. 1415(Sun 1220)-0500.
24) Rua Laranjeiras 304/8, Ed. Laranjeiras, Aracaju, SE.
25) see st. 12.
26) Rua Carlos Gomes 57, Salvador, BA. Cable: Gremio. 1900(Sat 1500, Sun 1300)-0400.
27) Rua Osvaldo Cruz 1985, Fortaleza, CE – Gen.Man: Dr. C. Neves d'Alge. Dir.Tec: S. Baltaduonis. 1000-0200.
28) Rua General Osório s/n, Uberaba, MG. 1400-0400.
29) Rua João Afonso 361, Corumbá, MT – Mgr: U. Raghiant. Dir.Tec: T. Roryz.
30) Rua 7 de Setembro 1123, 2° andar, Porto Alegre, RS – Dir.Gen: I. Tartorotti. 1445(Sat 1500, Sun 1155)-0300.
31) Av. W-3, Setor de Rádio e TV, Brasília – Dir.Gen: A. de Sa Filho. Dir.Tec: R.M. Habarta. Film Buyer: V. Valladares. 1500-0400(Gov.).
32) Av. João Luis Alves 13, Rio de Janeiro, RJ – Dir.Gen: J. Arrabal. Dir.Tec: O. Pagliari. 1200-0600.
33) Rua 14 de Julho 607, Campo Grande, MT – Mgr. & Dir.Tec: P. Szcharnack. 2030-0300.
34) Rua José Loureiro 119, Curitiba, PR. 1900-0300.
35) Av. Cruz Cabugá 394, Recife, PE – Dir.Gen: J.C. Poncell Netto. Dir.Tec: J.P. Santiago Filho. 1200-0500.
36) Rua Bocaiuva 117, Florianópolis, SC – Dir. D. Lopes.
37) Rua Fernandes Tourinho 818, Belo Horizonte, MG – Dir.Gen: E. Carneiro. Dir.Tec: J.G. Henriques. 1500-0300.
38) Av. Dr. Vicente Machada 483, Ponta Grossa, PR.
39) Av. Miruna 713, São Paulo, SP. Mon-Fri 1500-0400, Sat 1500-1900, Sun 0900-0300.
40a) Av. Aristen de Andrade 355, Maceio, AL – Man: P.A. Collor de Mello. Dir.Tec: R. Fonseca de Kauffmann. 1600-0600.
40b) Av. Nazareth, Belém.
41) Av. W-3, S.Q. 304, BI. 10, Brasília, DF 1500-0300 (relays st. 55).
42) Rua Burity Alegre 1069, Uberlândia, MG 1900(Sun 1700)-0300.
43) Rua Bento Gonçalves 1563, Caxias do Sul, RS – Dir: N. Rizzo. 1530-1730, 1900-0500.
44) Galeria Bassit s/2, São José do Rio Preto, SP.
45) Rua Vanancio Neiva 287, Campina Grande, PB – Dir.Gen: N.G. Bastos. Gen.Mgr: M. Góes Albuquerque. Dir.Tec: G.O. de Medeiros. 1800-0300.
46) Av. Desembargador Moreira 2430, Fortaleza, CE – Dir.Gen: A. Queiros Filho. Dir.Tec: K.H.R. Leopold. 1430-0310.
47) Praça João Pessoa 9, Juiz de Fora, MG.
48) C.P. 1474, Porto Alegre, RS – Mgr: J. Pagno. Dir.Tec: C. Matiello. Film Buyer: F. Miranda. 1800-0400.

49) C.P. 111, 86800 Apucarana, PR – Dir.Prgrs: H.M. de Hollanda. Dir.Tec: K. Sampaio. 1100-2400.
50) Av. Norte s/n, Recife, PE. 1930(Sat 2000, Sun 2100)-0200.
51) Av. Paulista 900, São Paulo, SP. 1800(Sat 1545, Sun 1300)-0300.
52) Rua José Loureiro 119, Curitiba, PR.
53) C.P. 1164, Porto Alegre, RS. Cable: Pioneira – Gen.Mgr: J. Sirotsky. Dir.Tec: A. Maluf, Film Buyer: E. Leite. 1900-0400.
54) Rua Venancio Aires 1980, Santa Maria, RS – Dir: A. Abelin. Dir.Tec: R. Seibel. 1400-1700 and thereafter (relays st. 53).
55) Rua Alberto de Campos 12, Panorama Palace, Rio de Janeiro, R.J. Cable: Teveria – St.Mgr: N. Vaccari. Dir.Tec: O. Leonardo. Mon-Fri 1720-0330, Sat 1300-0430, Sun 1100-0300.
56) Rua Getulio Vargas 32, Blumenau, SC – Mgr: C.G. Addor. Dir.Tec: J. Louro. Film Buyer: I.S. Macedo. 1500-0330.
57) C.P. 372, São Paulo, SP. Cable: Radiantes – Pres: J.J. Saad. Dir.Tec: M. Cipolla Jr. Film Buyer: C. Petraglia. 1400-0500.
58) Rua Marcilio Dias 305, 2° andar, Manaus, AM.

Projected stations:
59) TV Rio Grande, Rio Grande, RS (chA9).
60) TV Cerne, Goiânia, GO (chA13) (Gov.).
61) TV Guaíba, Porto Alegre, RS (chA2).
62) TV Educativa, Porto Alegre, RS)chA7) (Gov.).
63) TV Jornal do Brasil, Niterói, RJ (chA9).
64) TV Amapá, Macapá, AP (chA4).
65) TV 31 de Março, Aracaju, SE (chA8).
66) TV Educativa, Salvador, BA (chA7).
67) TV Universiária (Educ.), Santa Maria, RS (chA8).
68) Rádio TV Amazonas, Rio Branco, AC (chA4).
69) TV Uirapuru, Fortaleza, CE (chA8).
70) TV Universitária, Goiânia, GO (chA10) (Gov.).
71) Fundaçao Maranhense de TV Educativa, São Luis, MA (chA2).
72) TV Cultura de Maringá, Maringá, PR (chA8).
73) TV Universidade Federal, Natal, RN (chA5) (Gov.).
74) TV Bagé, Bage RS (chA6)
75) TV Uruguaiana, Uruguaiana, RS (chA13).
76) TV Jornal do Brasil, São Paulo, SP (chA9).
77) Rádio TV do Amazonas, Porto Velho, RO (chA4).
78) TV Guanabara, Rio de Janeiro, RJ (chA7).

NB: The Brazilian Ministry of Communications has invited bids for setting up TV stations at Chapecó, Santa Catarina, and João Pessoa, Paraiba.
Colour: PAL-M System (525 lines).
Sets: 10.525.000 (including 200.000 colour sets).

CHILE

TELEVISION NACIONAL DE CHILE (Gov.)

Addr: Bellavista 990 (P.O. Box 16104, Post 9), Santiago. **Te:** 774552. **Telex:** 55.20.181 TVC.
L.P: Dir.Gen: J. del Valle A. Tech.Mgr: A. Olivos C. Prgr.Mgr: R. López S.
Stations (System M): chA.

Location	ch	kW (ERP)	Location	ch	kW (ERP)
El Roble	2	46	Valparaíso	6	2.4
San Fernando	3	14.4	Copiapó	7	1.74
Valdivia	3	6.2	Maria Elena	7	2.5
La Serena	4	5.5	Santiago	7	46
Puerto Montt	4	11	Iquique	10	2
Talcahuano	4	13.6	Chuquicamata	10	1
Arica	5	7	El Salvador	10	2
Temuco	5	7.4	Talca	10	19
Antofagasta	6	8.9	Ovalle	10	1.74
Chillán	6	15	Vallenar	12	2.4
Osorno	6	11	Toconey	12	1.6
Punta Arenas	6	7			

+ 46 low power repeaters less 1kW.
D.Prgr: 1700-0400.

UNIVERSIDAD DE CHILE (Non-Comm.)

Addr: Casilla 12985, Santiago. **Te:** 34045.
Stations: chA9 60/30kW (+ relay st. at Valparaíso).
D.Prgr: 2100)Sat/Sun 1900)-1400.

UNIVERSIDAD CATOLICA DE CHILE (Non-Comm.)

Addr: Casilla 14600, Santiago. **Te:** 380342.
L.P: Gen.Mgr: E. Rodriguez M. Dir.Prgrs: R. Angumpert.
Stations: chA13 8/4kW H (Santiago), chA5 (San Fernando & Concepción).
D.Prgr: 1315-1415, 1755-0400.

UNIVERSIDAD CATOLICA DE VALPARAISO (Non-Comm.)

Addr: Box 4059, Valparaíso. **Te:** 56136.
L.P: Exec. Secr: C.F. Melendez.
Stations: chA4 16/4kW (Valparaíso), chA5 (Santiago) 6.5/1.6 kW, chA8 (Coquimbo) 1/0.2kW.
D.Prgr: 1800-0400.

UNIVERSIDAD DEL NORTE, Antofagasta.

Station: chA3 0.2kW. Repeaters: chA12 (Iquique) 1/0.2kW, chA10 (Arica).
TV-sets: 710.000.

COLOMBIA

INSTITUTO NACIONAL DE RADIO Y TELEVISION (INRAVISION)

Addr: Centro Administrativo Nacional, Vía Eldorado, Bogotá. **Te:** 690277. **Telex:** 044311 – **L.P:** Pte: O. Rovira A. Vice Dir.Tec: J.E. Nassar.
Stations (System M):

Area served	ch	kW (ERP)	N.	Area served	ch	kW (ERP)	N.
Santa Maria	2	900	1	Popayán	10	40	1
Medellín	3	600	1	Boyacá	10	50	1
Zipaquirá	4	1.2	2	Manizales	10	10	2
Zipaquirá	5	0.75	3	Neiva	10	80	2
Bucaramanga	6	600	1	Villavi-			
Montería	7	100	1	ciencio	11	3	1
Bogotá	7	100	1	Bogotá	11	10	3
Cartagena	7	25	1	Riohacha	12	25	1
Cali	8	25	1	Neiva	12	100	1
Carmen de				Pasto	12	80	1
Bolíar	9	100	1	Manizales	12	100	1
Pereira	9	20	1	Cali	13	30	2
Bogotá	9	10	2	Medellín	13	80	2

+ 49 repeaters less than 1kW.
D.Prgr: 1st prgr (Primera cadena) 1300-1600 (Educ), 1600-1800 (Comm), 1800-2100 (Educ) and 2100-0500 (Comm.). **2nd prgr:** (Segunda cadena) 2100-0430 (Comm.) **3rd prgr:** (Tercera cadena) 2100-0300 (Educ.)

TELEBOGOTA (Official, Comm.)

Addr: Ca. 22 No. 5-91, Bogota. **Te:** 347560. **Cable:** Protecnica. **Telex:** 044805. **L.P:** Dir.Gen: L. de Montejo. Dir.Tec: J. Maria C. Film Buyer: M. Calle O.
Station: chA9 1/0.25kW H. **D.Prgr:** 2230-0600.
TV-sets: 1.600.000.

ECUADOR

CORPORACION ECUATORIANA DE TELEVISION

Addr: Casilla 1239, Guayaquil. **Te:** 522524. **Cable:** Teledos – Pres. and Film Buyer: Xavier Alvaredo. Mgr: L.R. Hanna.
Stations: chA2 12/6kW. **D.Prgrs:** 1700-0530.

TELETIGRE (Comm.)

Addr: Casilla 352, Quito. **Te:** 210099 – Mgr: G. Brborich.
Station: chA2 6/3kW (Quito). **D.Prgrs:** 2130-0430(Sun 1330-0500).

TELEMAZONAS (Comm.)

Addr: Casilla 4844, Quito. **Te:** 249600 – Pres: A. Granda C. Dir.Tec: A. Escobar C.
Stations: Quito chA4 6/0.6kW, Guayaquil chA4 25/2.5kW, Cuenca chA4, Ambato & Latacunga chA7, Tulcán chA10.
D.Prgrs: 1900-0500.

TELE ONDES AZUAYAS (Comm.)

Addr: Casilla 4980, Cuenca – Pres: Dr. José A. Cardoso F.
Station: Cuenca chA5 0.5/0.25kW. **D.Prgr:** 2200-0400.

TELEVISORA NACIONAL CIA Ltda.
Addr: Casilla 388, Quito. **Te:** 244888 – Pres: L. Ponce M.
Stations: Quito chA8, Riobamba chA3, Tulcán chA6, Ambato & Latacunga chA5.

CADENA EQUATORIANA DE TELEVISION (Comm.)
Addr: Av. de las Americas, Guayaquil. **Te:** 39155.
Station: chA10 25/2.5kW + 17 repeaters.

CANAL 4
Addr: Loja – Mgr: Walter Jaramillo.
Station: chA4.

TESEM
Addr: Casilla 108, Esmeraldas – **Station:** chA6 0.5kW.

UNIVERSIDAD CATOLICA DE CUENCA
Adr: Cuenca – **Station:** chA2.
TV-sets: 500.000 (colour sets included).

GUYANA (French)

FRANCE REGIONS 3 (FR3)
Addr. & L.P: See radio – **Stations** (System K'625 lines): Cayenne chK'4 0.1kW, Kourou chK'6 65W. **D.Prgr:** 2100-0130 – **TV-sets:** 5000 – **ALF:** 200 Frcs.

PARAGUAY

TELEVISION CERRO CORA (Comm.)
Addr: Avda, Carlos A. Lòpez y Rios Gallardo, Asunciòn. **Te:** 80086.
L.P: Gen.Mgr: Ricardo Sanchez A. Commercial Mgr: Jorge Morinigo E.
Station (System M): chA9 60/12kW.
D.Prgr: 1600-1800, 2030-0400.
TV-sets: 55.000.

PERU

Cultural

MINISTERIO DE EDUCACION (Gov.)
Addr: Ministerio de Educación Publica, Dirección de Cultura s/n Av. N. de Pierola, Lima.
Station (System M): chA7 150/75kW H (repeaters: Puno chA2, Huancayo chA3, Iquitos chA6, Ayacucho chA7).
D.Prgr: 1500-0500.

Commercial

TELEVISORA AMERICA
Addr: Casilla 1192, Lima. **Te:** 245440.
Stations: OAX4U-TV Lima ch4 18/9kW. Relay st's (all 0.1kW), Huacho (ch6), Piura (ch2), Chiclayo (chA4), Iquitos (chA6), Trujillo (chA6), Tacna (chA9), Ica (chA6), Tumbes (chA5).
D.Prgr: 1500-0600.

PANAMERICANA TELEVISION S.A.
Addr: 1110 Ave, Arequipa, Lima.
L.P: Tech.Dir: Eng. G. Reusens.
Stations: OAY4A-TV Lima chA5 120/20kW H. Relay st's: Arequipa chA2 2/0.4kW, Cuzco chA9, Tacna chA2, Piura chA7, Chiclayo chA2, Trujillo chA7, Chimbote chA9, Pucallpa chA13+3 repeaters not mentioned.
D.Prgr: 1500(Sat/Sun 1400)-0130.

TELEVISORA CONTINENTAL
Addr: Ave. 1040 J. Galvez, Arequipa.
Station: chA6 8/4kW H (relays: Ilo chA2, Camaná chA4, Toquepala chA6, Moquequa chA7, Mollendo chA9).
D.Prgr: 2000-0500.

SURINAM

SURINAAMSE TELEVISIE STICHTING (Gov, Comm.)
Addr: P.O. Box 535, Paramaribo. **Te:** 73100. **Cable:** Surteve.
L.P: Man.Dir: F.J. Pengel. Prgr.Mgr: G. Meye. Dir.Tec: F.K. Sjauw en Va.
Stations (System M): Paramaribo chA8 6/3kW, Niew Nickerie chA12 1/0.5kW. Totness chA10 1/0.5kW+relay st. at Wageningen chA7 0.1kW – **Projected:** Relay sts at Albina (chA9) and Moengo(chA11) in 1976.
D.Prgr: 2200-0230 in Dutch.
TV-sets: 37.500.

URUGUAY

D.Prgr: All st's operate 2200(Sat/Sun 1900)-0300, unless otherwise stated.
Stations (System N):

Location	ch	kW(ERP)	Location	ch	kW(ERP)
1) Artigas	8	0.5	10) Rivera	10	?
2) Colonia	8	1/0.5	11) Montevideo	10	94/47
3) Paysandú	8	3/0.6	4) Punta del Este	11	4/0.5
4) Montevideo	4	60/10	12) Treinta y Tres	11	1/0.5
5) Montevideo	5	32/16	13) Melo	12	1/0.5
6) Rocha	7	0.5/0.1	14) Fray Bentos	12	1
7) Tacuarembó	7	0.5/0.05	15) Montevideo	12	120/40
5) Melo	8	1/0.5	16) Minas	13	?
8) Salto	8	?			
4) Rosario	8	85/15			
9) Punta Ballena	9	?			

1) Tele-Artigas, Lecueder 291, Artigas – Dir.Gen: E. dos Santos.
2) TV Canal 3, W. Barrot 172, Colonia.
3) Río de los Pájaros TV, Paysandú.
4) Monte Carlo TV, Av. 18 de Julio 1855, Montevideo – Dir.Gen; H. Romay S. Dir.Tec: D.S. Russo.
D.Prgr: 2030-0400.
5) SODRE, Bld. Colorado 2362, Montevideo.
6) Tele-Rocha, Av. O. de los Santos 105, Rocha – Dir.Gen: F. Elices.
7) Telesiete Tacuarembó, 18 de Julio 242, Tacuarembó – Dir.Gen: Luis S. Dini. Dir.Tec: R. Fontes.
D.Prgr: 2100-0300.
8) Televisora Salto Grande, Av. Viera 1280, Salto.
9) Canal 9 del Este, Punta Ballena, Depto. Maldonado – Dir.Gen: F. Elices.
10) Tevediez, Sala 9 de Galeria Legiani, Rivera – Dir: A. Pereira.
11) SAETA, Lorenzo Carnelli 1234, Montevideo – Pte: R. Fontaina Sr. Dir: J. De Feo.
12) Televisora Treinta y Tres, Pablo Zufriategui, Treinta y Tres.
13) Melo TV, Ca. Montevideo 723, Melo – Dir: R.D. Lucas.
14) Río Uruguay TV, Zorilla y Argentina, Fray Bentos – Dir.Gen: H. Romay S.
15) Televisora Larranaga S.A., E. Compte y Rique 1276, Montevideo – Dir.Gen: H. Scheck. Dir.Tec: M. Donangelo.
D.Prgr: 2000-0400.
16) TV Cerro Verdún, Treinta y Tres 632, Minas.
TV-sets: 355.000.

VENEZUELA

VENEZOLANA DE TELEVISION "5" (Gov.)
Addr: Ap. 3979, Caracas. **Te:** 624718.
Stations: Caracas (Central St): chA5 100/20kW.

Repeaters:	chA	kW(ERP)		chA	kW(ERP)
Margarita	5	90/22.5	Los Olivos	13	100/20
Aleton	6	90/22.5	Pto. La Cruz	13	75/18.5
Maracay	6	68/17	Tachira	13	275/68
Maracaibo	6	48/12	Cd. Piar	13	20/5
Cd. Bolivar	6	20/5			

D.Prgr: Between 1000 and 0400.

Continued on page 365

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CO-OPERATING DX-CLUBS

ARGENTINA: Club DX Argentino Internacional, Gutenberg 3276, Buenos Aires (Publ: "ADXCI Boletin DX", bi-monthly in Spanish and English) – **Aconcagua DX-Club,** Casilla 533, 5500 Mendoza – **Buenos Aires DX-Club,** Formosa 670, 1424 Buenos Aires.

AUSTRALIA: Australian Radio DX-Club, P.O. Box 227, Box Hill, Victoria 3128 (Publ: "Australian DX-News") National Club covering SW, MW, utilities. (Return postage required with all enquiries). **Branches** in Victoria, NSW, Tasmania, So. Australia and Queensland – **Radio Australia Listeners' Club,** Box 428G, GPO, Melbourne. **Southern Cross DX-Club,** Box 336, GPO, Adelaide, So. Australia 5001 – **Sydney DX-Club,** P.O. Box 204, Roseville, NSW 2069 (Publ: "Sydney DX-News") – **Down Under DX-Circle,** 17 Stevenson Str, Kew, Vic. 3101 (Publ: "Down Under DX-Survey"). Specialises in Asian DX-news.

AUSTRIA: Assoziation Junger DX-er in Österreich, P.O. Box 11, A-1111 Wien.

BELGIUM: Telex: B.P. 68, B-1170 Bruxelles (Publ: "Telex") – **Alliance des Clubs de reception radio belg,** 31 Ave. Royale, B-1330 Rixensart (Publ: "Panorama DX").

BENELUX: Benelux DX-Club, P.O. Box 1306, Nijmegen 6800, Nederland (Publ: "Benelux DX-Club" in Dutch and English).

BRAZIL: DX-Clube do Brasil, Caixa Postal 30, 50000 Recife (Publ: "Comunição DX").

CANADA: Canadian International DX-Radio Club, 169 Grandview Ave, Winnipeg, Man. R26 0L4 (member of ANARC, USA) – **Ontario DX-Association,** 603-29 Church Str, Weston, Ont. M9N 1M5 (member of ANARC, USA) (Publ: "DX-Ontario").

DENMARK: The Danish Shortwave Clubs International, Greve Strandvej 144, DK-2670 Greve, Strand (Publ: "Shortwave News" in English) – **Dansk DX-Lytterklub,** P.O. Box 392, DK-8700 Århus C. (Publ: "DX-Fokus", fortnightly in Danish).

FINLAND: Suomen DX-Liitto ry (Finnish DX Association), P.O.B. 454, SF-00101 Helsinki 10. Suomen DX-Liitto is the central DX organization in Finland with 8 member organizations and DX service organization. The members are Suomen DX-Kuuntelijat ry, Finlands DX-club rf and The Friendly DX-Club ry. The DX service organization is DX-Palvelu Oy,Kierretie 10, SF-01650 Vantaa 65. Publications: "DX-Kuuntelija" in Finnish, English and Swedish 10 times a year. "DXclusive", a fortnightly bulletin. A weekly DX programme "Finn-DX" over Radio Finland – *) member clubs.

***Finlands DX-Club rf,** P.O.B. 214, 00101 Helsingfors 10.

***Suomen DX-Kuuntelijat ry,** PL 454, 00101 Helsinki 10. Local branches in Espoo, Hamina, Helsinki, Hämeenlinna, Iisalmi, Inkeroinen, Isokyrö, Joensuu, Jyväskylä, Kauhajoki, Kemi, Kirkkonummi, Lappeenranta, Lieksa, Nurmijärvi, Oulu, Pieksämäki, Rovaniemi, Siilinjärvi, Sulkava, Suonenjoki, Tampere, Turku, Vammala, Vantaa, Varkaus, Vuosaari – ***The Friendly DX-Club ry,** P.O.B. 214, 00101 Helsinki 10.

Finlands Svenska DX-Förbund rf, Postbox 592, 00101 Helsingfors (Publ: "Frekvensnytt", distributed to all affiliated clubs) – **Jakobstads DX-Club rf,** Box 9, Jakobstad – **Nykarleby Radio Club rf,** Nykarleby – **Nylands DX-Klubb,** Box 2, Virkby – **Petalax DX-Club,** Petalax – **Uudenmaan Radiokerho ry,** Hämeenkylä (Publ: "Urkkija").

FRANCE: Club Français des Ondes Courtes, 71 bis, Bld. Barbes, F-75018 Paris.

GERMANY: Arbeitsgemeinschaft DX (AGDX), P.O. Box 110405, D-2800 Bremen 11 (Publ: "Weltweit Hören"). The clubs listed below are associated to the AGDX.

Association Junger DX-er, P.O.B. 111, D-3011 Letter.

Kurzwellenklub Berlin e.V. P.O.B. 191530, D-1000 Berlin 19 – **Mittelwellen-Arbeitskreis-International,** P.O. Box 144104, D-5600 Wuppertal 11 – **Kurzwellenring Süd,** Ginsterweg 40, D-8500 Nürnberg. **Worldwide DX-Club,** P.O.B. 1263, D-6380 Bad Homburg (Publ: "DX-Magazine", monthly in English). (+further 6 clubs associated to AGDX).

Assoziation deutschsprachiger DX-er (ADDX), Wagnerstr. 4, D-4320 Hattingen (Publ. "ADDX-Kurier" in German) – **Shortwave Listeners Club Saar,** P.O. Box 1170, D-6688 Illingen/Saar (Publ: "DX-News" in German) – **German SWL-DX-Club,** Königsbühlstr. 6, D-8503 Altdorf.

INDIA: India DX-Club International, GPO Box 2648, Calcutta 700001 (Publ: "DX-Digest" – sample copy 8IRCs airmail) – **World Radio DX-Club,** Rest Camp, Gauhati 781012.

ISRAEL: Israel DX-Club, P.O. Box 7125, Haifa.

ITALY: Italia Radio Club, P.O. Box 1355, I-84100 (Publ: monographies – irr).

JAPAN: Japan Shortwave Club, GPO Box 79, Sendai (Publ: "SW-DX Guide") – **Japan DX-Club,** P.O. Box 32, Nara-nishi, Nara-shi 631 (Publ: "JFL news").

NEW ZEALAND: DX-Radio Associations, 78 District Rd, Green Island, Dunedin (Publ: "Tune in") – **New Zealand Radio DX-League,** P.O. Box 1313, Invercargill (Publ: "New Zealand DX-Times"). Branches at Auckland, Tauranga, New Plymouth, Palmerston North, Wellington, Christchurch, Camaru, Dunedin and Invercargill.

NORWAY: DX-Listeners' Club, P.O. Box 1284 V, Oslo 1 (Publ: "DX-News", 11 times a year). Local branches in Oslo, Trondheim, Bergen, Stavanger and Haugesund. Offers L.A. Europe, Africa, Asia, Pacific and America (10 IRCs). DX-Prgrs over HCJB 2nd Fri of the month. (Reception reports enclosing one IRC are verified with "the Icebear-QSL").

SOUTH AFRICA: South African DX-Club, 4 Emlyn, 18 Noble Rd, Durban 4001 (Publ: "DX-News", monthly with up to the minute news on African sts).

SPAIN: Atlantico DX-Club, Parque Residencial "Guajara" 96, La Laguna, Tenerife, Canary Islands (Publ: "Receptor").

SRI LANKA: Union of Asian DX-ers, Calle Walauwa, Pilyandala (Publ: "UADX").

SWEDEN: Riksförbundet DX-Alliansen (Swedish DX-Federation), P.O. Box 3108, S-103 62 Stockholm (Publ: "Eter-Aktuellt", in Swedish). All clubs listed below are associated to Riksförbundet DX-Alliansen:

Bagarmossens Radiosällskap, c/o Grims-Land, Nissastigen 1, 121 57 Johhaneshov – **Bjuvs DX-klubb,** P.O. Box 77, 267 00 Bjuv – **Botkyrka Sändare Amatörer,** DX-sektionen, P.O. Box 1042, 150 24 Rönninge – **Burträsk DX-Club,** P.O. Box 11, 930 20 Burträsk – **Dellenbygdens DX-Club,** c/o Andersson, Torggatan 30, 820 60 Delsbo – **DX-Club HL 71,** P.O. Box 124, 694 01 Hallsberg – **DX-Club Audioteurarna,** c/o Kilåker, Östra Almgatan 81, 234 00 Lomma – **DX-Club Kilohertz,** P.O. Box 88, 693 01 Degerfors – **DX-Club Lundensis,** P.O. Box 11001, 220 11 Lund – **DX-Club 71,** c/o Larsson, Profilvägen 20 C, 612 00 Finspång – **DX-Hörnan,** Kvistbergsskolan, 680 60 Sysslebäck – **DX-klubben Antennen,** P.O. Box 100, 860 13 Stöde – **DX-klubben KMB,** P.O. Box 32, 265 01 Åstorp – **Falköpings DX-klubb,** Storgatan 44, 521 00 Falköping – **Frövi Radioklubb,** Fack 63, 710 40 Frövi – **Halmstads Kortvågsklubb,** P.O. Box 15, 301 02 Halmstad – **Kopparbergs Radioklubb,** P.O. Box 3, 714 01 Kopparberg – **Lammhults Fr tidsklubb,** DX-sektionen, P.O. Box 110, 360 30 Lammhult – **Malmö Kortvågsklubb,** Fack 7026, 200 42 Malmö – **Mälardalens Radiosällskap,** Konsolvägen 3, 123 58 Farsta – **Orsa Kortvågsklubb,** P.O. Box 128, 794 00 Orsa – **Radioklubben Tellus,** c/o Rydström, Styrlinegatan 5, 431 36 Mölndal – **Radio Teknikum,** Gamla Norrvägen 6-8, 352 43 Växjö – **Rudskoga DX-Club,** c/o Frostelid, Frosterud, 690 10 Åstorp – **Rydsgårds DX-klubb,** P.O. Box 3, 270 12 Rydsgård – **Skivarps Radiosällskap,** P.O. Box 8, 270 10 Skivarp – **Stora Tuna DX-klubb,** c/o Lyrvall, Hyttingsvägen 8, 781 00 Borlänge – **Svalans DX-Club,** P.O. Box 8022, 250 08 Helsingborg – **Uddevalla DX-Club,** P.O. Box 213, 451 01 Uddevalla – **Umeå Kortvågsklubb,** P.O. Box 117, 901 02 Umeå – **Vindelälvens Radiosällskap,** P.O. Box 14, 920 70 Sorsele – **Västsvenska DX-Sällskapet,** c/o Walentin-Askman, Dr Linds Gata 6, 413 25 Göteborg – **Växjö DX-Corporation,** c/o Gross, Ljungbergsgatan 25, 360 30 Lammhult.

Arctic Radio Club, P.O. Box 5050, S-350 05 Växjö (not

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P.O. Box 88, DK-2650 Hvidovre, Denmark.

affiliated to DX-Alliansen) (Publ: "MW-eko" in Swedish). **SWITZERLAND: Swiss SW Club,** P.O. Box 309, CH-8051 Zürich (Publ: "Swiss SW News" in German).

UNITED KINGDOM: International Shortwave League, 1 Grove Road, Lydney, Glos. GL15 5EP (Publ: "Monitor") – **Mediumwave Circle,** 7 The Avenue, York YO3 6AS (Publ: "Mediumwave News") – **The Twickenham DX-Club,** 37a Pope's Grove, Twickenham (Publ: "Communication", monthly). **World DX-Club** 11 Wesley Grove, Portsmouth PO3 5ER, Hants. (Publ: "Contact").

UNITED STATES OF AMERICA: Association of North American Radio Clubs (ANARC) 557 N. Madison Ave, Pasadena, Calif. 91101 (Publ: Newsletters).

ANARC Member Clubs:

American SWLs Club, 16182 Ballad Lane, Huntingdon Beach, Calif. 92649 (Publ: "SWL-monthly") – **International Radio Club of America,** P.O. Box 21462, Seattle, Wash. 98111 (Publ: "DX-Monitor", 34 issues per year, mediumwave only) – **National Radio Club,** P.O. Box 127, Boonton, NJ 07005 (Publ: "DX-News", published 32 times a year, MW only) – **North American Shortwave Association,** P.O. Box 13, Liberty, Indiana 47353, the only all-SWBC club in North America, publishing "Frendx" (monthly) and "Flashsheet" (bi-monthly), Journal monthly – **Speedx,** P.O. Box E, Elsinore, Calif. 92330 (Publ: "Speedx" the DX Radio Magazine for active SWLs monthly, with bi-monthly Speedx-Grams during the winter season. Information free on request – **Worldwide TV-FM DX-Association,** P.O. Box 163, Deerfield, Ill. 60015 (Publ: "VHF-UHF Digest", providing exclusive coverage of TV-FM-VHF-Radio).

Associate Member Clubs:

Brooklyn DX-Club (BDXC), 1137 East 12th Str, Brooklyn, NY 11230 – **Miami Valley DX-Club,** 1102 Delverne Ave SW, Canton, Ohio 44710 – **Minnesota DX-Club,** 16920 17th Ave, North Wayzata, Minn. 55391 – **Radio Communications Monitoring Association (RCMA),** P.O. Box 4563, Anaheim, Calif. 92803 (Publ: Newsletter).

Newark News Radio Club (not ANARC member), P.O. Box 539, Newark, NJ 07101 (Publ: NNRC Bulletin).

VENEZUELA: Caracas DX-Club, Urbanización el Peñón, Calle Andromeda, Qta. Lolin, Caracas 108 (Publ: YVRDX) – **YV Zulia DX-Club,** Calle 61A No. 13A-98, Maracaibo (Publ: "Banda Tropical").

Television: Venezuela *(from page 363)*

VENEZOLANA DE TELEVISION "8" (Gov.)

Addr: Ap. 2739, Caracas. **Te:** 349571. **Cable:** Colteve. **Telex:** 21501 – Dir.Gen: Dr. Arnoldo Paolini R. Dir.Tec: S.E. Aguerrevere.
Stations: Caracas (Central St): chA8 190/95kW.

Repeaters	chA	kW(ERP)			
Barquisimeto	7	110/55	Valencia	11	151/75.5
Maracaibo	8	157/78	Pto. La Cruz	11	23/11.5
Cd. Bolivar	8	18/9	Anaco	11	100/50
Margarita	8	40/20	Cd. Bolivar	11	23/115
Bocono	8	20/10	Cd. Piar	11	20/10
Litoral	11	79/39.5			

D.Prgr: 1300-0500 (approx.)

RADIO CARACAS TELEVISION (Comm.)

Addr: Ap. 2057, Caracas. **Te:** 418971 – Gen.Mgr: & Film Buyer: P. Bottome. Dir.Tec: M. Benzo.
Stations: Caracas (Central St): chA2 60/30kW.

Repeaters:	chA	kW(ERP)			
Maracaibo	2	66/33	Valencia	7	300/150
Barquisimeto	3	70/35	Tachira	7	5/1
Barcelona	3	100/50	Carupano	7	50/25
Cd. Guayana	3	275/137.5	Pto. Cabello	10	5/1
Maturin	3	300/150	Falcón	10	330/165
Litoral Central	7	10/5	El Tigre	10	5/1

+ 3 low power repeaters.
D.Prgr: 1100-0500.

VENEVISION (Comm.)

Addr: Ap. 6674. Caracas. **Te:** 742.444. **Cable:** Ventel. **Telex:** 21379 – Gen.Mgr: E. Cuzco. Dir.Tec: F. Urbanejas. Film Buyer: I. Klein.
Stations: Caracas (Central St): chA4 90/45kW.

Repeaters:	chA	kW(ERP)			
Maracaibo	4	35/17.5	Valencia	9	76/38
Barquisimeto	6	65/32.5	Tachira	9	12/6
Barcelona	7	30/15	Valera	9	2.5/1.25
Litoral	9	18/9	San Cristóbal	9	2.5/1.25

+ 2 low power repeaters.
D.Prgr: 1330-0430.
TV-sets: 1.300.000 (incl. 75.000 colour sets).

LONG & MEDIUM WAVE STATIONS

Compiled by **Arctic Radio Club,** Sweden
November 1, 1976
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CONVERSION TABLE

Frequency kHz=Wavelength meter

kHz	m	kHz	m	kHz	m	kHz	m	kHz	m	kHz	m	kHz	m
151	1986	560	535.7	735	408.2	910	329.7	1085	276.5	1260	238.1	1435	209.1
155	1935	565	531.0	740	405.4	915	327.9	1090	275.2	1265	237.2	1440	208.3
164	1829	570	526.3	745	402.7	920	326.1	1095	274.0	1270	236.2	1445	207.6
173	1734	575	521.7	750	400.0	925	324.3	1100	272.7	1275	235.3	1450	206.9
180	1666	580	517.2	755	397.4	930	322.6	1105	271.5	1280	234.4	1455	206.2
182	1648	585	512.8	760	394.7	935	320.9	1110	270.3	1285	233.5	1460	205.5
185	1622	590	508.5	765	392.2	940	319.0	1115	269.1	1290	232.6	1465	204.8
191	1571	595	504.2	770	389.6	945	317.5	1120	267.9	1295	231.7	1470	204.1
200	1500	600	500.0	775	387.1	950	315.8	1125	266.7	1300	230.8	1475	203.4
209	1435	605	495.9	780	384.6	955	314.0	1130	265.5	1305	229.9	1480	202.7
218	1376	610	491.8	785	382.2	960	312.5	1135	264.3	1310	229.0	1485	202.0
227	1321	615	487.8	790	379.7	965	310.9	1140	263.2	1315	228.1	1490	201.3
233	1287	620	483.9	795	377.4	970	309.3	1145	262.0	1320	227.3	1495	200.7
236	1271	625	480.0	800	375.0	975	307.7	1150	260.9	1325	226.4	1500	200.0
245	1224	630	476.2	805	372.7	980	306.0	1155	259.7	1330	225.6	1505	199.3
254	1181	635	472.4	810	370.4	985	304.6	1160	258.6	1335	224.7	1510	198.7
263	1140	640	468.8	815	368.1	990	303.0	1165	257.5	1340	223.9	1515	198.0
272	1103	645	465.1	820	365.9	995	301.5	1170	256.4	1345	223.0	1520	197.4
281	1067	650	461.5	825	363.6	1000	300.0	1175	255.3	1350	222.2	1525	196.7
340	882	655	458.0	830	361.4	1005	298.5	1180	254.2	1355	221.4	1530	196.1
362	829	660	454.5	835	359.3	1010	297.0	1185	253.2	1360	220.6	1535	195.4
385	779	665	451.1	840	357.1	1015	295.6	1190	252.1	1365	219.8	1540	194.8
388	773	670	447.8	845	355.0	1020	294.0	1195	251.0	1370	219.0	1545	194.2
400	750	675	444.4	850	352.9	1025	292.7	1200	250.0	1375	218.2	1550	193.5
433	692	680	441.2	855	350.9	1030	291.3	1205	249.0	1380	217.4	1555	192.9
Medium wave		685	438.0	860	348.8	1035	289.9	1210	247.9	1385	216.6	1560	192.3
kHz	**m**	690	434.8	865	346.8	1040	288.4	1215	246.9	1390	215.8	1565	191.7
520	576.9	695	431.7	870	344.8	1045	287.1	1220	245.9	1395	215.1	1570	191.1
525	571.4	700	428.6	875	342.9	1050	285.7	1225	244.9	1400	214.3	1575	190.5
530	566.0	705	425.5	880	340.9	1055	284.4	1230	243.9	1405	213.5	1580	189.9
535	560.7	710	422.5	885	339.0	1060	283.0	1235	242.9	1410	212.8	1585	189.3
540	555.6	715	419.6	890	337.0	1065	281.7	1240	241.9	1415	212.0	1590	188.7
545	550.5	720	416.7	895	335.2	1070	280.4	1245	241.0	1420	211.3	1595	188.1
550	545.5	725	413.8	900	333.3	1075	279.0	1250	240.0	1425	210.5	1600	187.5
555	540.5	730	411.0	905	331.5	1080	277.8	1255	239.0	1430	209.8	1605	186.9

EUROPE, AFRICA, NEAR & MIDDLE EAST

Abbreviations: In addition to the standard abbreviations of this book (on page 38) the following terms have been abbreviated: BRF=Berliner Rundfunk; Cad=Cadena; Cath=Catholic; Cen=Center; Cl=Club, Clube; Cult=Cultura; EIPT=National Hellenic Bc. Institute; FIL=France Inter Lyon; FIM=France Inter Marseilles; FIP=France Inter Paris; For=Foreign; Ft=Fort; Gen=General; HW=Hansawelle; IDF=Israeli Defense Forces R. St; LP=lowpower st; LS=local Yugoslavian station on the air during daytime; Mil=Military; Mt=Mount; PAF=Portuguese Air Force R. St; R1, 2, etc=Radio 1, 2, etc; RB=Radio Bremen; RDDR=Radio DDR; r.f.=Reported frequency; RMR=Radio Moscow Relay St; SDD=Stimme der DDR; stns=stations; USAF=US Air Force; v.f.=varying frequency; VOC=Voice of Cyprus; VOP=Voice of Palestine; VOM=Voice of Morocco; YENED=Greek Armed Forces Information Sce; FS=Foreign Service.

kHz	kW	Country	Station/Location	kHz	kW	Country	Station/Location
151	250	Germany W	Donebach(DLF)	185	750	Germany E	Berlin(SDD)
155	100	USSR	Ufa	191	800	Sweden	Motala
	150		Moscow		10	Italy	Caltanisetta
	10	Norway	Tromsö		500	USSR	Tbilisi
	1200	Romania	Brasov	200	400	Great Britain	Droitwich(R2)
164	2000	France	Allouis		240	Turkey	Etimesqut
173	500	USSR	Moscow		150	USSR	Moscow
	1000		Minsk		150		Leningrad
	1000		Kaliningrad	209	100	Iceland	Reykjavik
	500		Lvov		20		Eidar
	300		Belebey		500	USSR	Kiev 1
	300		Syktyvkar		800	Morocco	Azilal
	1000		Maykop	218	1400	Monaco	Monte Carlo
180	2000	Germany W	Saarlouis		200	Norway	Oslo
182	20	Sweden	Luleå		500	USSR	Baku
	1200	Turkey	Ankara	227	2000	Poland	Konstantynow

kHz	kW	Country	Station/Location
236	2000	Luxembourg	Junglinster
	1000	USSR	Leningrad 1+1 st
	1200		Kuybyshev
	1000		Kishinev
	150		Arkhangelsk
	500		Yerevan
245	150	Denmark	Kalundborg
	100	Turkey	Erzurum
251	1500	Algeria	Tebessa
254	200	Finland	Lahti 1
	150	USSR	Yerevan
	150		Kazan
255	0.1	France	Lille
263	300	Germany E	Burg
	100		Königswusterhausen
	2000	USSR	Moscow
272	30	Czechoslovakia	Olomouc
	200		Moravske Budejovice
	30		Strakonice
281	500	USSR	Minsk 2
375		USSR	Arkhangelsk
433	10	Finland	Oulu
520	10	Austria	Aldrans/Lienz/Liezen
	0.05		1 LP
	1	Finland	Joensuu
	20	Germany W	Hannover(NDR)
	0.4	Germany W	3 LP(BR)
	0.25	Norway	Röros
	2×10	Iran	Iran-shahr
529	20	Germany E	Schwerin (RDDR)
	5		Leipzig (Messewelle)
	2	Romania	Petrosani
	250/500	Switzerland	Beromünster
	30	USSR	Cheboksary
	200	Israel	Ramallah
	600	Algeria	Ain Beida
	2	Zaire	Kisangani
539	0.05	France	Bayonne 2
	2000	Hungary	Solt
	2	Ireland	Carraroe
	17	Italy	Cagliari
	8		Palermo
	4		Catania
	30	USSR	Orenburg
	500	Libya	Tripoli
	1	Malawi	Mangoche
	750	Kuwait	Kuwait
547	50	Saudi Arabia	Riyadh
548	800	Germany W	Königslutter(DLF)
	100		Bad Dürrheim(DLF)
	1000	USSR	Kishinev 2/Minsk 2
			Leningrad 2
			Moscow 2
			Caucasus area
			Kaliningrad 2
	600	Algeria	Oran
		Gabon	Oyem
	25	Zambia	Kitwe
		Saudi Arabia	Diriyah
557	100	Finland	Helsinki I
	20/10	Germany E	Rostock (Ferienwelle)
			Keula(RDDR)
	10	Portugal	Faro
	10		Guarda
	200	Romania	Tirgu Jiu
	50/100	Switzerland	Monte Ceneri
	250	USSR	Volgograd
	20	Yugoslavia	Maribor
	1	Algeria	Touggourt
	20	Kenya	Kisumu
	5	Mozambique	Inhambane
	40	Egypt	Cairo 3
	5	South Africa	Cape Town
558	2000	Iran	Quazvin
560	50	Bahrain	Bahrain
566	0.1	Austria	Feistritz 2
	0.05		5 LP
	100/33	Germany W	Berlin(SFB)
	500/150	Ireland	Tullamore
	25	Italy	Bologna/Caltanisetta 1
	5/2		Salento/Aosta 1

kHz	kW	Country	Station/Location
566	10	Portugal	Valenca do Minho
	50	Romania	Satu Mare
	30	USSR	Perm
	2	Zaire	Lubumbashi
	300	Syria	Homs
575	100	Germany E	Leipzig(RDDR)
	300	Germany W	Mühlacker(SFR 1)
	1	Portugal	Bragança
	500	USSR	Riga 1
	50		Astrakhan 2
	400	Algeria	Bechar
	2	South Africa	Johannesburg
	100	Uganda	Mityana
	600/10	Iran	Abadan
	200	Israel	Quadima
	1	Saudi Arabia	Jizan
580	100	Iran	Tehran
584	240/600	Austria	Bisamberg
	25		Klagenfurt 1
	10		Salzburg 1
	0.05		Mayrhofen 1
	5	Faeroe Isl.	Torshavn
	10	France	Paris(FIP)
	5		Marseille(FIM)
	100/200	Spain	Madrid Majadahonda
	150	USSR	Izhevsk
	2	Rhodesia	Salisbury
	2	Tanzania	Marhubi, Zanzibar
	350	Tunisia	Gafsa
587	1200	Saudi Arabia	Riyadh
593	250	Bulgaria	Pleven 1
	60		Sofia 2
	400	Germany W	Frankfurt(HR)
	40/250		Meissner (HR)
	0.5	Great Britain	Tatsfield
	1	Italy	San Remo
	1		Torino
	10	Sweden	Sundsvall
	10	USSR	Astrakhan
	150		Eniseisk
	25		Ordzhonikidze
	1	Yugoslavia	Ogulin
	1	Malawi	Lilongwe
	100	Morocco	Oujda A
	10/250	Nigeria	Kaduna(RTV Kaduna)
	600	Jordan	Ajlun
602	0.5	Finland	Mariehamn
	300/150	France	Lyon Tramoyes 1
	5	Germany E	Karl-Marx Stadt(BR)
	5		Helpterberg(RDDR)
	14	Romania	Bucharest-Kherastrau
	14		Turnu Severin
	1/2	Yugoslavia	Drnis/Rijeka/
			Ivangrad/Kutina
	10	Nigeria	Abafon
	8	Reunion	Saint Denis(ORTF)
	5	Tunisia	Sousse
	20	Cyprus	Nicosia(CBC 2)
611	250	Germany E	Schwerin(SDD)
	10	Germany W	Grafenwohr/Kaiserslautern/
			Nürnberg(AFN)
		USSR	Unknown, We. Estonia
			Petrozavodsk 2
			Vilnius
			Moscow 2
			No. Caucasus, prgr. 2
	150		Kiev
			Murmansk
	600	Yugoslavia	Sarajevo
	100	Kenya	Nairobi
	140	Morocco	Sebaa Aioun A
	2	Rhodesia	Gwelo
612	400	Iran	Qasr-e-Shirin
615	20	Bahrain	Manama
		Iraq	?
620	150	Belgium	Wavre Overijze 1
	10	Portugal	Vila Real Tras-os-Montes
	50	USSR	Makhachkala/Ukhta
	100	Canary Isl.	S.Cruz de Tenerife(RNE)
	450	Egypt	Batra al Mansurah
	2×10	Iran	Birjand

kHz	kW	Country	Station/Location
629	25	Austria	Aldrans/Lauterach 2
	1		Lienz 2
	20/5	Germany E	Greifswald/Suhl/ Beeskow(RDDR(
	100	Norway	Vigra
	1	Portugal	Miranda do Douro
	135	Romania	Timisoara
	50	USSR	Kuibyshev
	10	Liberia	Monrovia(ELBC)
	600	Tunisia	Tunis Djedeida
	2	Zambia	Lusaka
	300	Turkey	Cukurova
632	50/10	Tanzania	Moeya
637	800	Iran	Bonab
638	300	Czechoslovakia	Prague-Melnik
	100	Spain	La Coruña(RNE)
	20		Bilbao(RNE)
	20		Zaragoza(RNE)
	5	Nigeria	Benin City
	2	South Africa	Johannesburg
	100	Uganda	Kampala
	100	Cyprus	Zyyi(BBC) Relay)
645	100	Iran	Tabriz
647	150	Great Britain	Daventry(R3)
	2		Edinburgh/Glasgow/ Newcastle/Redmoss(R3)
	1		Redruth/Swansea+ 3 LP(R3)
	100	USSR	Rostov-na-Donu
	150		Simferopol
	100		Kharkov
	20/1	Yugoslavia	Tovarnik/Varazdin
	50	Saudi Arabia	Riyadh
648	20	Gambia	Bonto
650	0.3	Azores	Lajes Field(PAF)
656	20	Germany E	Potsdam/Plauen/ Reichenbach(BRF)
	35		
	120	Italy	Florence/Naples 1
	35		Turin 1
	25		Bolzano/Venice 1
	50	USSR	Murmansk/Groznyy
	25		Chernovtsy
	10	Nigeria	Ibadan
	50	Sahara	Laayoune
	5	South Africa	Cape Town
	100	Tanzania	Dar es Salaam
	200	Israel	Yavneh
660	25	Afghanistan	Yakatut
665	150/300	Germany W	Rohdrorf(SWF)
	15	Greece	Athens 3(EIPT)
	5	Iceland	Hofn
	135	Portugal	Lisbon
	100	USSR	Kaunas
	4	Reunion	St.Pierre(ORTF)
	100	Iran	Ahwaz
	100	Syria	Damascus Sabburah
674	0.05	Austria	9 LP
	150	France	Marseille 1
	1		Lille(FIL)
	20	Holland	Lopik
	10	Norway	Bodö
		USSR	Chernovtsy
	50		Uzhgorod
			Ashkhabad
	100	Libyan Arab.Rep.	Benghazi+1 st
	1	Malawi	Mzimba
	20	Israel	Ramallah
	50	Qatar	Ad Dawhah
680	100	Iran	Rasht
	10		Zibakenar
683	100	Germany W	Berlin Britz(RIAS)
	40		Hof-Saale(RIAS)
	20	Germany E	Meiningen
	2	Great Britain	Barnstaple(R4)
	250	Spain	Sevilla(RNE)
	2×1000	Yugoslavia	Belgrade 1
	10	Mauritius	Curepipe
	2	Rhodesia	Bulawayo
692	250	Germany E	Suhl(SDD)
	300	Great Britain	Moorside Edge(R4)
	10		Bartley(R4)

kHz	kW	Country	Station/Location
692	2/0.5		Whitehaven/Brighton/ Cromer/Ramsgate/ Swindon(R4)
	30	Italy	Bari
	20		Pisa
	4		Ancona/Aosta/Bolzano
	10	Portugal	Viseu 1
	100	USSR	Ufa
	4	Algeria	Ain-El-Haman
	600	Zaire	Kinshasa
	20	Cyprus	Nicosia Athalassa(CBC)
	1200	Iraq	Basra
700	750	Oman	Masirah Isl.(BBC Relay)
701	300	Andorra	La Vieja
	10	Bulgaria	Khascovo
	2		Dulovo
	100	Czechoslovakia	Banska Bystrica
	30		Rimavska Sobota
	30		Bratislava
	3		Kosice/Zilina/Ofava/
	3		Usti nad Labem
	2		Tatry
	5	Germany W	Flensburg(NDR)
	5		Aachen(WDR)
	2		4 LP(NDR/WDR)
	10	Monaco	Monte Carlo
	20	Norway	Finmark
		USSR	Tallin
	5	Angola	Luanda
	140	Morocco	Sebaa Aioun B
	2	South Africa	Grahamstown
	750	Oman	Masirah Isl.(BBC Relay)
	150	Turkey	Istanbul
705	50	Saudi Arabia	Muzia
710	300	France	Rennes
	1		Lyons(FIL)
	20	Italy	Rome
	150	USSR	Donetsk
	150		Tallinn
	5		Kohtla-Järve
	5		Parnu
	5		Tartu
	25	Yugoslavia	Zagreb
	0.05		2 LP
	10	Liberia	Monrovia(ELWA)
	10	Morocco	Tarfaya
	2	Rhodesia	Gwelo
	50	Egypt	Cairo
	1	Israel	Jerusalem
719	150	Germany W	Munich Holzkirchen(RFE)
	0.25	Great Britain	Londonderry(R4)
	0.5		Belfast(R4)
	100	Portugal	Norte
	150	Sweden	Östersund
	50/10	Tanzania	Mwanza
	100	Tunisia	Sfax
	5	South Africa	Maraisburg
720	100	Cyprus	Zyyi (BBC Relay)
	800	Iran	Taybad
728	25	Austria	Klagenfurt
	1	Bulgaria	Silistra
	500	Germany E	Berlin-Köpenick(BRF)
	150	Greece	Athens
	10	Portugal	Mirandela
	10	Spain	Malaga
	50		Oviedo
	20		Logroño
	100	Uganda	Butebo
	5	South Africa	Cape Town
	750	Un.Arab Emirates	Abu Dhabi
737	40	Germany W	Hof-Saale(RIAS 2)
	5	Iceland	Akureyri
	300	Poland	Poznan
	125/250	Spain	Barcelona(RNE)
	2	Yugoslavia	Sl. Brod
	50	Mozambique	Maputo
	10	Iran	Mashhad
	1200	Israel	Quadima
746	30	Bulgaria	Plovdiv
	20	Germany E	Cottbus(RDDR)

kHz	kW	Country	Station/Location
746	120	Holland	Lopik
	100	Yugoslavia	Sarajevo+1 st
	1	Algeria	Tlemcen
	100	Kenya	Nairobi
	100	Upper Volta	Ougadougou
	100	Syria	Aleppo Sarakeb
755	20	Finland	Kuopio
	200	Germany W	Königslutter (DLF)
	100/5		Ravensburg(DLF)
	2	Great Britain	Redruth(R4)
	1		Carlisle(BBC local)
	20	Malta	Delimara(R. Malta)
	135	Portugal	Lisbon
	400	Romania	Lugoj
	5	Turkey	Anamur(VOC)
	10	Malawi	Blantyre
	200/50	Yemen DR	Aden
759	5	São Tome Principe	São Tome
	0.01	France	Lille
760	300	Iraq	Baghdad Salmon Pak
764	150/250	Switzerland	Sottens
	50	USSR	Odessa
	150	USSR	Medvezhyegorsk
	10	Yugoslavia	Niksic
	200	Senegal	Dakar Rufisque
	100	Sudan	Omdurman
770	10	Iran	Sari
773	1	Austria	Salzburg
	0.05		14 LP
	30	Bulgaria	Stolnik
	30		Varna
	20	Italy	Napoli/Genova
	10	Int. waters	Mi Amigo
	60	Spain	Caceres/San Sebastian
	150	Sweden	Stockholm Nacka
	0.05	Switzerland	2 LP
	20	Yugoslavia	Ucka
	2/0.7		6 LP
	100	USSR	Voronezh
	50		Orenburg
	1000	Egypt	Abbis
	600	Morocco	Sidi-Bennour
777	100	Iran	Zahedan
782	1000	Germany E	Burg(SDD)
	100	Portugal	Porto Miramar(CSB9)
	100	USSR	Kiev
			Simferopol
			Uzhgorod
	0.5	Vatican	Vatican City
	2/0.05	Yugoslavia	Rijeka/Sisak/Split
	5	Mozambique	Lichinga
	5	South Africa	Bloemfontein
	2×10	Iran	Iran-shahr
	600	Syria	Tartus
791	300	France	Limoges
	500	Greece	Kavalla(VOA+EIPT)
	50	USSR	Astrakhan
	10	Yugoslavia	Sabac(LS)
	20	Kenya	Mombasa
	1	Rhodesia	Gatooma
800	50/100	Germany W	Nürnberg Dillberg(BR)
	8	Italy	Rome/Reg. Calabria
	20	Spain	Madrid(EAJ7)
	2		Palma(EAJ13)
	1000	USSR	Leningrad
	1	Yugoslavia	B. Polje
	200	Jordan	Amman
	5	South Africa	Durban
	300	Zaire	Bukavu
809	5	Germany W	Berlin(BBC Relay)
	600	Great Britain	Crowborough
	100		Burghead/Westerglen(R4)
	5		Redmoss(R4)
	2		Dumfries(R4)
	10	Spain	Sevilla(EAJ5)
	2		Reus(EAJ11)
	150	USSR	Volgograd
	50		Ulianovsk
	30		Kharkov
	1000	Yugoslavia	Skopje+1 st
809	10	Nigeria	Ilorin
	1	Senegal	Matam
	100	Uganda	Bobi
		Un. Arab Emirates	Abu Dhabi
818	900	Andorra	La Vieja (Sud Radio)
	25	Italy	Trieste 1
	300	Poland	Warzaw Mokotov 2
	10	Mauritius	Curepipe
	1	Morocco	Rabat A
	450	Egypt	Batra al Mansurah
	250	Zambia	Lusaka
820	20	Iran	Iran-shahr/Yazd
827	500	Bulgaria	Shumen
	40	Germany W	Freiburg(SWF)+1 st
	0.5		Kiel(NDR)
	1	Portugal	Castelo Branco
	20	Spain	Barcelona(EAJ1)
	50	USSR	Gorkiy
	300	Libya	Sebha
	100	Morocco	Oujda B
	60	Syria	Deir-Ez-Zor
829		Sudan	Juba
836	1	Azores	Ponta Delgada(CSA7)
	10	Finland	Ylivieska
	150	France	Nancy 1
	5	Spain	Valencia(EFE17)
	5		Huelva(RNE)
	150	USSR	Kharkov
	10	Yugoslavia	Krusevac(LS)
	0.05		Vrbovec
	10	Canary Isl.	Las Palmas(EAK35)
	15	Morocco	Khar-es-Souk
	5	Mozambique	Chimoio
	1.25	Tanzania	Dar es Salaam
	100	Lebanon	Beirut Amchitt
845	30	Czechoslovakia	Ceske Budejovice/Ostrava
	540	Italy	Rome
	30	USSR	Elista
	15		Moscow
	2	Iran	Damghan
	5	Israel	Safad
850	10	United Arab Emirates	Abu Dhabi
	1	Lebanon	?
	10	Iran	Yazd
854	100	Germany W	Berlin Britz (Rias 2)
	0.5	Great Britain	Blackburn(BBC local)
	0.5		Torquay(R4)
	750	Romania	Bucharest Tincabesti
	125	Spain	Murcia(RNE)
	20		Santander(RNE)
			Pontevedra(RNE)
	50	USSR	Amga
	0.05	Algeria	Setif
	100	Ethiopia	Harrar
	1	Rhodesia	Fort Victoria
	5	Israel	Safad
856	10	Jordan	Amman
863	1	Albania	Kelcyra
	30	Bulgaria	Blagoevgrad
	300	France	Paris Villebon
	100	USSR	Yerevan
	1	Yugoslavia	Knin/Sisak/Vukovar
	15	Morocco	Ksar-es-Souk
	5	Egypt	Assuan
872	150	Germany W	Frankfurt(AFN)
	20	Hungary	Budapest Lakihegy
	15		Pecs
	20	Spain	Zaragoza(EAJ101)
	2		Algeciras(EAJ55)
	150	USSR	Moscow
	150		Leningrad
	150		Minsk
	150		Ulianovsk
	100		Kishinev
	20	Canary Isl.	S. Cruz de Tenerife(EFJ57)
	50	Egypt	Cairo
	100	Ethiopia	Addis Ababa
	20	Kenya	Kisumu
	1	Malawi	Karonga

kHz	kW	Country	Station/Location
872	50	Mozambique	Beira
	10	Syria	Damascus
881	100	Germany E	Berlin Königswusterhausen (RDDR)
	70	Great Britain	Washford(R4)
	10		Penmon(R4)
	5		Tywyn(R4)
	2		Wrexham(R4)
	20	USSR	Stavropol 2
	100	Yugoslavia	Titograd
	0.05		4 LP
	10	Swaziland	Mbabane
	1	Israel	Beit Hillel
	10	Yemen	Sana
885	100	Saudi Arabia	Dammam
890	20	Austria	Linz Freinberg 2
	10	Holland	Hengelo
	10	Norway	Bergen/Kristiansand/Tröndelag
	150	USSR	Uzhgorod 2
	30		Baku 1
	20		Dnepropetrovsk
	1	Yugoslavia	Daruvar
	200	Algeria	Algiers Ouled Favet 2
	2	Rhodesia	Salisbury
	600	Turkey	Antalya
897	10	Iran	Mahabad
899	600	Italy	Milan 1
	50	USSR	Yoshkar-Ola
	2	Yugoslavia	Belgrade (Borba II)
	10	Lesotho	Maseru
900	10	Iran	Kermanshah
908	250	Germany E	Burg
	140	Great Britain	London, Brookm. Park(R4)
	100		Stagshaw(R4)
	20		Clevedon (R4)
	2		Scarborough/Hull/Redruth (R4)
	0.7		Whitehaven(R4)
	59	Rumania	Clui
	150	USSR	Arkhangelsk
	1	Malawi	Nkhota-kota
	100	Uganda	Kampala
	200	Iraq	Thourah
	5	Gambia	Banjul(R.Syd)
917	20	Spain	Madrid(EAJ2)
	50	USSR	Makhachkala
	600	Yugoslavia	Ljubljana
	50	Mozambique	Maputo
	2	Cyprus	Coral Bay-Paphos
	2	Iran	Jiroft
926	300	Belgium	Wolvertem
	50	Greece	Zakynthos(EIPT)
	10	Portugal	Lamego
	10	USSR	Ivanovo
	30		Vladimir
	20	Yugoslavia	Nis
	1		3 LP
	200	Turkey	Izmir
933	10	Iran	Rezajeh
935	10	Germany W	Berlin(AFN)
	100	USSR	Lvov
			Vinnitsa(FS)
	50		Arkatyk
		Yugoslavia	Zenica
	60	Egypt	Cairo
	100	Morocco	Agadir A
	0.3	Mozambique	Quelimane
944	0.05	Austria	Unzmarkt 1
	30	Bulgaria	Pleven
	300	France	Toulouse 1
	5	Greece	Larissa(YENED)
		Portugal	?
	14	Romania	M. Ciuc
	300	USSR	Rostov-na-Donu 2
	50		Riga 2
	0.05	Yugoslavia	3 LP
	10	Angola	Luanda
	50	Ethiopia	Asmara
	10/20	S. Tomé e Principe	São Tomé
	10	Syria	Damascus

kHz	kW	Country	Station/Location
946	10	Iran	Marivan
952	750	Qatar	Al Arish
953	100	Czechoslovakia	Brno
	30		Plzen
	10	Greece	Iraklion(YENED)
	20	Spain	Madrid(EAJ29)
	5		Badalona(EAJ39)
	2	Yugoslavia	Bijeljina
	1		Petrinja
	10	Canary Isl.	Las Palmas(EAJ50)
	20	Kenya	Kapsimotwa
	10	Nigeria	Enugu
	10	Syria	Deir-Ez-Zor
960	60	Sudan	Omdurman
		Egypt	Cairo
962	0.05	Austria	10 LP
	100	Bulgaria	Shumen
	100	Finland	Turku 1
	8	France	Paris (R. Sorbonne)
	1	Ireland	Cahirciveen (RNG)
		Portugal	Coimbra
	0.05	Switzerland	Prutz
	10	Yugoslavia	Kragujevac (LS)
	1		2 LP
	100	Tunisia	Tunis
	1	Senegal	Podor
	2×10	Iran	Birjand
963	2	Turkey	Istanbul 2
	150	Somali	Mogadishu
964	1	Albania	Korça
967	10	Iran	Shiraz
971	300	Germany W	Hamburg(NDR)
	5		Bonn(NDR)
	3		Kleve(NDR)
		Portugal	?
	500	USSR	Nikolayev
	20		Kalinin/Smolensk
	50	Botswana	Gaborone
	1	Morocco	Marrakech
972	1	Iran	Ilam
976	1	Iran	Khoramabad
977	5	Egypt	Asyut 1
980	200	Greece	Athens(YENED)
	10	Italy	Trieste A
	150	Sweden	Gothenburg 1
	150	USSR	Aktiubinsk
	20		Garm
	10	Yugoslavia	Cacak
	5		Podravska Slatina
	0.05		1 LP
	200	Algeria	Algiers Ouled Fayet 1
	10	Nigeria	Port Harcourt
	1	Rhodesia	Umtali
985	20	Gabon	Franceville
	100	Iran	Kermanshah
989	10	Finland	Rovaniemi
	300	Germany W	Berlin Britz
	1	Great Britain	Exeter(R4)
	0.1		Wolverhampton(IBA)
	50	Spain	Madrid
	1	Ethiopia	Addis Ababa(ETLF)
	10	Lebanon	Beirut Amchitt
990	400	Iran	Shiraz
995	10	Qatar	Doha
998	15	Albania	Kükes(V)
	10	Germany W	Heidelberg 1(SDR)
	0.2		Buchen 1(SDR)
	1	Great Britain	Southampton(BBC local)
	0.25		Nottingham(IBA)
	20	Malta	Delimara (R. Malta)
	100	USSR	Kishinev
	10	Cameroon	Yaounde
	10	Rhodesia	Gwelo
	10	Mauritania	Daklah
	50	Uganda	Kabale
998	100	Rhodesia	Gwelo
1000	60	Yemen	Taiz
1007	50	Greece	Corfu(EIPT)
	120	Holland	Lopik 2
	200	Yugoslavia	Belgrade 2+3
	50	Mozambique	Maputo

kHz	kW	Country	Station/Location
1007	50	Zaire	Bandundu
	2×10	Iran	Semnan
1010	1	Angola	Luanda
1016	30	Czechoslovakia	Nitra/Rim.Sobota
	6		Bratislava/Hradec Kralove+1 LP
	600/300	Germany W	Mainz Wolfsheim(SWF)
	10	Greece	Tripolis(YENED)
	25	Italy	Venice
	10		Genova
	150	USSR	Baku
	50		Uchatchi
	50		Slonim
	1	Yugoslavia	Djurdjevac
	1	Algeria	Batna
	1	Morocco	Tangier
	1200	Turkey	Istanbul
1020	0.1	Saudi Arabia	Abqaig (Aramco Radio)
1025	100	Austria	Dobl/Kronstorf
	10		Dornbirn Lauterach
	5		Maria Pfarr
	0.05		10 LP
	1	Great Britain	Belfast(IBA)
	10	Spain	San Sebastian(EAJ8)
	5		Barcelona(EFJ15)
	0.05	Yugoslavia	Trstenik
	1	Morocco	Rabat/Safi
	1.25	Tanzania	Dar es Salaam
	10	Zaire	Kananga
	50	Israel	Yavneh
1030		Iraq	?
1032	2	Turkey	Izmir 2
1034	1	Germany W	Karlsruhe(AFN)
	0.25		2 LP
	1	Great Britain	Sheffield(BBC local)
	0.5		Chatham(BBC local)
	50	Italy	Milan
	25		Naples/Venice
	10		Genova
	5		Pescara/San Remo
	1		Caltanisetta
	120	Portugal	Porto Alto(CSB2)
	500	USSR	Tallinn
	1	Guinea-Bissau	Bissau
1035	2000	Iraq	Babylon(V)
	100	Oman	Salalah
1043	10	Belgium	Aye-Marche
	5	Bulgaria	Petrich
	250	Germany E	Dresden(RDDR)
	50	Greece	Thessaloniki(EIPT)
	100	USSR	Tbilisi
	1	Yugoslavia	Leskovac(LS)
	0.05		1 LP
	2	South Africa	Pt. Elisabeth
	12	Zaire	Mbuji-Mayi
	25	Morocco	Sebaa-Aioun
1050		Iran	?
1052	0.05	Austria	9 LP
	5	Germany E	Suhl(BRF)
	5		Putbus(RDDR)
	100	Great Britain	Start Point(R4)
	150		Droitwich(R4)
	7.5		Postwick(R4)
	2		Barrow/Bexhill/Brisco Stockton(R4)
	1		Folkestone(R4)
	1000	Romania	Iasi
	50	USSR	Kurgan
	0.2	Yugoslavia	Samobor
		Libyan	
	50	Arab Rep.	Tripoli
	20	Morocco	Tetuan
	20	Iran	Yazd
1061	60	Denmark	Kalundborg
	25	Italy	Cagliari/Squinzano
	2		3 LP
	1		2 LP
	100	Portugal	Norte
	150	USSR	Yoshkar-Ola
	50		Saransk
	7	Yugoslavia	Zagreb(R. Sljeme)

kHz	kW	Country	Station/Location
1061	1		3 LP
	50	Egypt	Cairo
		Libya	?
	300	Turkey	Diyarbakir
	2×10	Iran	Kerman
1070	20	France	Brest/Grenoble/Lille
	10		Montpellier
	10		Bastia
	0.25	Greece	Mesolongion
	20	USSR	Dnepropetrovsk
	50		Riga
	50		Kuldiga
	50		Valmiera
	20		Krasnodar
	25	Yugoslavia	Banja Luka
	10		Pristina(LS)
	100	Guinea-Bissau	Nharra
	20	Zambia	Kitwe
	60V	Syria	Tartus
1079	20	Germany E	Plauen(RDDR)
	100/30	Germany W	Bremen(HW-RB)
	10	Greece	Orestias(YENED)
	100	Poland	Katowice
	25	Spain	Valencia(RNE)
	20/100	Yugoslavia	Koper
	1		3 LP
	1	Algeria	Souk Ahras
	20	Kenya	Mombasa
	1	Morocco	Casablanca A
	5	Mozambique	Maputo
	5/2	Egypt	Al Minya/Luxor
1080	0.5	Cyprus	Lefke Samcak(Bayrak)
	600	Iran	Abadan
1088	150	Albania	Durres
	0.05	Austria	2 LP
	500	Great Britain	Orfordness Crowborough
	50	USSR	Krasnodar+1 st
	20	Yugoslavia	Novi Sad
	100	Angola	Luanda(CR6RZ)
	40	Comoro Isl.	Haboho
	2×10	Nigeria	Lagos
1090		Iran	?
1095	20	Cyprus	Nicosia(Bayrak-Channel One)
	2	Uganda	Bugisu
	0.1	Saudi Arabia	Ras Tanura (Aramco Radio)
1097	400	Czechoslovakia	Bratislava
	60	Italy	Bologna 2
	20	Spain	Madrid(EFE 14)
	5		San Sebastian(EFE 23)
	5		Cordoba(EFE 58)
	2		Cadiz(EFJ5)
	2		Sama de Langreo(EFJ 41)
		USSR	Unknown(No.We.E.)
	20	Canary Isl.	Las Palmas(ECS 4)
1100	10	Iran	Isfahan
1106	100	Germany W	Munich Ismaning(AFN)
	1	Great Britain	Leeds(BBC local)
	2	Spain	Alcoy(EAJ 12)
	2		Huesca(EAJ 22)
	2		Antequera(EAJ 26)
	2		Barcelona(EAJ 35)
	2		Linares(EAJ 37)
	2		La Coruña(EAJ 41)
	2		Manresa(EAJ 51)
	2		Badajoz(EAJ 52)
	2		Salamanca(EAJ 56)
	2		Orense(EAJ 57)
	2		Vitoria(EAJ 62)
	2		Leon(EAJ 63)
	150	USSR	Kaunas
	100		Moghilev
	100		Arkha.igelsk
	35		Nalchik
	10	Yugoslavia	Titovo Uzice(LS)
	10	Cameroon	Douala
	0.5	Kenya	Nairobi
	0.25	Malawi	Mzuzu
	2	Morocco	Ceuta(EAJ 46)

kHz	kW	Country	Station/Location
1106	600	Egypt	Batra
		Un. Arab	
	10	Emirates	Dubai
1110	1	Angola	Novo Redondo
1115	150	Italy	Bari 2
	50		Bologna 2
	25		Pisa 2
	6		Trieste 2
	5		Messina 2
	2		2 LP
	0.5	Great Britain	Derby(BBC local)
	1	Norway	Arendal+5 sts
	5	USSR	Moscow
	80		Sochi/Kaliningrad
	5	Angola	S. Salvador
	15	Morocco	Quarzazate
	7.5		Tangier A
	5	South Africa	Pietersburg
	2×125	Iran	Bandar-e-Lengeh
1124	0.1	Austria	14 LP
	10	Belgium	Houdeng
	150	Bulgaria	Stara Zagora
	10	Spain	Barcelona(EAJ 15)
	150	USSR	Leningrad
	20	Yugoslavia	Baske Ostarije
	2		Osijek/Zenica
	500	Libyan Arab Rep.	El Beida
	2	Zambia	Kabwe
1130	750	Kuwait	Kuwait
1133	0.02	Iceland	Alftafjordur
	15	Spain	Avila(ECS 3)
	12		Sevilla(ECS 8)
	5		Jaen(ECS 9)
	2		Ciudad Real(ECS 13)
	3		Monforte de Lemos(ECS 17)
	2		Zamora(ECS 19)
	5		Caceres(EFE 6)
	2		Oviedo (EFE 22)
	5		Vigo(EFE 31)
	5		Tarragona(EFE 33)
	5		Pamplona(V) (EFE 57)
	2		Cadiz(EFJ 5)
	2		Murcia(EFJ 19)
	2		Albacete(EFJ 23)
	2		Almeria(EFJ 25)
	2		Ponferrada(EFJ 29)
	2		Bilbao(EPJ 43)
	5		Zaragoza(EPJ 46)
	2		Burgos(EFJ 54)
	5		Malaga(EFJ 56)
	300	Yugoslavia	Tovarnik
	135		Zagreb
	50		Hvar
	20		Ucka
	2		Dubrovnik
	20	Canary Isl.	La Laguna(EAK 64)
	5	Egypt	Sohag
	0.5	Kenya	Nairobi
	750	Kuwait	Kuwait
1142	0.05	Austria	12 LP
	10	Bulgaria	Varna
	10	Germany W	Stuttgart(AFN)
	5		Bremerhaven(AFN)
	1		Ulm(AFN)
	0.25		5 LP(AFN)
	10	Greece	Ioaninna(YENED)
	150	USSR	Kaliningrad
	100		Kuybyshev
	2	Yugoslavia	Pula/Zadar
	40	Algeria	Constantine
	1	Zambia	Livingstone
1151	0.1	Austria	Judenburg
	2	Great Britain	Glasgow(IBA)
	0.6		Birmingham(IBA)
	1		Newcastle(IBA)
	0.35		Manchester(IBA)
	0.5		Plymouth(IBA)
	8		London(LBC)
	1	Yugoslavia	Pirot
	950	Romania	Cluj
	1	Morocco	Marrakech

kHz	kW	Country	Station/Location
1153		Albania	Sarande
1159	60	Egypt	Tanta
1160	150	Bulgaria	Kardzali+Varna
	200	France	Strasbourg
	100		Toulouse
	8		Ajaccio
	10	Angola	Huambo
	5	Mozambique	Tete
	50	Zaire	Matadi
	10	Iran	Abadan
1165		Albania	Saranda
	2	Turkey	Kars
1169	10	Germany W	Heilbronn(SDR)
	5		Ulm Jungingen(SDR)
	0.8	Great Britain	Swansea(IBA)
	0.5		Stockton/Tees(IBA)
	0.4		Ipswich(IBA)
	0.8		Portsmouth(IBA)
	10	Portugal	Porto
	1000	USSR	Moghilev
	50		Unknown
			Armavir
	500		Maykop
	6	Yugoslavia	Koper
	0.05		3 LP
	4	Afar Issas	Djibouti
	20	Chad	N'djamena
	2	Iran	Damghan
	1	Israel	Jerusalem
	0.13		Eilat
1175	10	Un. Arab Emirates	Ras al Khaimah
1176	2	Turkey	Van
1178	2	Bulgaria	G. Delchev
	50	Greece	Thessaloniki(YENED)
	20	Spain	Barcelona(RNE)
	100	Sweden	Hörby
	1	Egypt	Quena
	5	South Africa	Pt. Elizabeth
1186	0.1	Greece	Megara(priv)
1187	135	Hungary	Szolnok
	25		Szombathely
		Intern. waters	R. Caroline
	5	Spain	Cuenca(RNE)
	5		Sevilla(RNE)
		USSR	?
	1	Morocco	Casablanca
1188	2×100	Iran	Tehran
1195	0.1	Saudi Arabia	Ras Tanura(Aramco Radio)
	50	Iraq	Arbil
1196	300	Germany W	Munich Ismaning(VOA)
	1	Portugal	Portalegre
	50	USSR	Minsk
	5		Brest
	5		Grodno
	50		Kaunas
	0.05	Yugoslavia	Mladenovac
	0.05		3 LP
	2	Lesotho	Mohale's Hoek
	20	Morocco	Agadir
	20	Iraq	Arbil
1198	10	Egypt	Alexandria
1200		Greece	Agrinion(priv)
	0.5	Turkey	Izmir
1202			Ankara(ESEDR)
1203	60	Yemen	San'a (V)
1205	300	France	Bordeaux
	200	Poland	Koszalin
	60/5		Lublin/Mysliborz/ Nowy Sacz/Olsztyn/ Wroclaw/Zywiec
	2.5	Yugoslavia	Subotica
	2		Mostar
	1		Cazma
	1	Gabon	Oyem
	10	Sierra Leone	Freetown
	10	Israel	Akko
1210	1	Niger	Niamey
1214	500	Albania	Lushnje
	60	Great Britain	Washford
	50		London/Moorside Edge

kHz	kW	Country	Station/Location
1214	40		Westerglen
	30		Droitwich
	20		Burghead
	10		Lisnagarvey
	2/0.15		10 LP
	200	USSR	Tartu
	30		Orissare
	20		Kursk
	0.05	Yugoslavia	Pregrada+1 st
	2	Turkey	Gaziantep
	50	Tanzania	Arusha
	10	Iran	Darya(Chalus)
1217	1	Saudi Arabia	Al-Madinah
1220	1	Saudi Arabia	Djeddah
1222	1	Saudi Arabia	Riyadh
1223	1000	Bulgaria	Vidin
	0.05	Holland	Bloemendaal
	6	Italy	Messina+2 stns
	50	Spain	Madrid(RNE)
	10	Sweden	Falun
	5	Mozambique	Maputo
	5		Nampula
1230	0.1	Bahrain	Awali
1232	100	Czechoslovakia	Kosice
	30		Nitra
	30		Rimavska Sobota
	30		Praha
	20		Ostrava
	6		Bratislava
	5		Brno
	3		Banska Bystrica
	600	Cyprus	Cape Greco(RMC Relay)
	1	Angola	Luanda
	200	Morocco	Tangier(VOM)
1240	4	Ivory Coast	Abidjan(nf. 1241)
	1	Iran	Sari
	100	Oman	Muscat
1241	50	Finland	Vaasa
	100	France	Nancy
	50		Toulouse
	20		Lille/Marseille
	150	USSR	Kiev
	50		Simferopol
	30		Donetsk
	30		Odessa
	20		Tiraspol
	20		Chernovtsy
	5	Angola	Saurimo
	1	Rhodesia	Bulawayo
1248	50	United Arab Emirates	Dubai
1250	1	Holland	Amsterdam
	135	Hungary	Balatonszabadi
	25		Nyiregyhaza
	10/5	Ireland	Cork/Dublin(RTE)
	10		Annagary(RNG)
	1	Portugal	Chaves
	0.1	Gabon	Franceville
	500	LibyanArab.Rep.	Tripoli
	1.25	Tanzania	Mwanza
	50	Un. Arab Emirates	Deira
	20	Iran	Sari
1255	1	Rhodesia	Salisbury
1259	1	Azores	Horta
	500	Greece	Rhodes(VOA)
	130	Poland	Boleslawiec/Kielce
			Miastko/Opole
			Suwalko/Szczecin
	5	Spain	Valencia(EAJ 3)
	2		Bilbao(EAJ 28)
	5	Vatican	Vatican City
	1	Angola	Dalatando
1268	600	Germany W	Neumünster(DLF)
	20	Spain	Madrid(EAK 1)
	2		Palma de Mallorca(EAK 18)
	10	USSR	Fergana
	150	Yugoslavia	Novi-Sad
	10	Canary Isl.	Las Palmas(EAK 92)
	20	Kenya	Nairobi Langata
	4	Mali	Mopti

kHz	kW	Country	Station/Location
1275		Cyprus	Letka Sancak(VOC)
1277	300	France	Strasbourg
	0.1	Great Britain	Bradford(IBA)
	10	Greece	Florina(YENED)
	150	USSR	Odessa
	100		Ulianouck
	50		Rostov-na-Donu
	2/0.05	Yugoslavia	Gevgelija+2 LP
	10	Egypt	Assuan
1278	100	Iran	Kermanshah
1279	20	Oman	Muscat(V)
1286	1500	Czechoslovakia	Prague (Foreign Sce)
	30		Mnichovo Hradiste
	1	Portugal	Lisbon(CSB 3)
	10	Yugoslavia	Bor
	1	Cameroon	Yaounde
	0.5	Kenya	Nyeri
	5	South Africa	Johannesburg
	2	Zaire	Mbandaka
	20	Israel	Tel Aviv(IDF)
	5		We. Sinai(IDF)
1290	20	Iran	Sari
1292	15	Albania	Gjirokaster(V)
1295	30	Bulgaria	Shumen
	5		Smolyan
	600	Great Britain	Crowborough(BBC ES)
	2		Foxdale(R. Manchester)
	150	USSR	Baku
	10	Yugoslavia	Vranje
	10		Valjevo(LS)
	1	Angola	Uige
	10	Guinea	Conakry
	1	Morocco	Rabat C
	10	Mozambique	Beira
	1500	Sudan	Sennar
1304	1	Germany W	Heidelberg(AFN)
	0.25		5 LP(AFN)
	5	Greece	Kozani(YENED) (nom freq 1313)
	1		Serrae(YENED) V
	260	Poland	Bialystok+5 stns
	1	Yugoslavia	Krapina
	40	Algeria	Constantine
	40		Oran
	5	Egypt	Assiut
	0.5	Kenya	Nairobi
	10	Senegal	Kaolack
	1	Togo	Togblekope
	5	Israel	Haifa(IDF)
1313	0.1-0.05	Austria	15 LP
	6	Italy	Ancona
	100	Norway	Stavanger
	30	Romania	Timisoara
	2		Constantza/Craiova
	10	Spain	La Linea(RNE)
	100	USSR	Stavropol
	50		Komrat/Beltsy
	10	Yugoslavia	Strumica+3 sts
	1	Angola	Lubango
	1	Gabon	Libreville
	2×10	Iran	Ardabil
	10	Syria	Aleppo
	5	South Africa	Pt. Elizabeth
1320	10	Nigeria	Enugu
1322	0.2	Albania	Shkodra V
	50	Bulgaria	Blagoevgrad
	150	Germany E	Nauen(RMR)
	0.5	Portugal	Santarem(CSB 32)
	100	USSR	Kandalakcha
	30		Tskhinvali
	10	Yugoslavia	Bor(LS)
	10		Bitola
	1	Morocco	Safi B
	1	Senegal	Linguere
	50	Cyprus	Vasiliko(BBC Relay)
1325	2+100	Iran	Tehran
1327		Nigeria	Ibadan
1331	150	Italy	Rome 1
	25		Pescara 1
	12.5		Palermo 1
	1	Portugal	Elvas(CSA 212)

kHz	kW	Country	Station/Location
1331	15	USSR	Kohtla-Jarve/
	30		Parnu/Voru
	1	Yugoslavia	Jajce
	1	Angola	Mocamedes(CR6RM)
	10	Madeira	Funchal
	0.1	Niger	Maine Soroa
	10	Seychelles	Victoria(ZCQ 3)
1340	100	Great Britain	Lisnagarvey(R4)
	0.5		Swindon(R4)
	80	Hungary	Budapest Lakihegy
	10	Yugoslavia	Loznica(LS)+LP
	10	Egypt	Alexandria
	2	Rhodesia	Bulawayo
	1	Upper Volta	Ouahigouya
	1	Iran	Bam
1345	200	Kuwait	Al Jiwan
1349	100	France	Nancy
	4	Greece	Pyrgos(YENED)
	5	Hungary	Szolnok
	0.4		Györ
	20	USSR	Kuldiga
			Madona
			Tbilissi
	10	Yugoslavia	Belgrade(R. Borba)
	20		Zadar+3 stns
	1	Cameroon	Garoua
	20	Mauritania	Nouakchott
1355	1	Greece	Kavalla(YENED)
	10	Nigeria	Ibadan
1358	120	Albania	Tirana
	250	Germany E	Berlin Köpenick(SDD)
	2	Germany W	Bremerhaven(RB)
	1	Portugal	Viseu
	2	Spain	Palencia(EFE 4)
	5		Granada(ECS 5)
	5		La Coruña(EFJ 11)
	15	USSR	Moscow
	0.13	Israel	Eilat
		Yemen	Aden (TV Simulcast)
1360	240	Iraq	Kirkuk
1367	25	Italy	Venice
	12.5		Naples
	10		Genova/Milan
	6-0.1		10 LP
	300	Poland	Krakow+6 stns
	10	Portugal	Porto Monte de Virgem
	1	Switzerland	Saviese
	1	Rhodesia	Que Que
	20	Senegal	St. Louis
	5	Israel	Beersheba(IDF)/Golan(IDF)
	0.3		So. Sinai
1372		Cyprus	Cambulat (VOC)
1376	150	Bulgaria	Kardzali/Sofia
	300	France	Lille
	50/25	USSR	5 sts Ukraine
	1	Yugoslavia	Smederovo(LS)
	10		Pljevlja
	1	Nigeria	Kano
	50	Swaziland	Sandlane
1380	0.1	Saudi Arabia	Dhahran(Aramco Radio)
1385	20	Germany E	Bernburg+1 st (BR)
	50	Greece	Athens(EIPT)
	20	Spain	Madrid(ECS 11)
	2		Gerona(ECS 14)
	2		Orense(ECS 18)
	3		Palma(EFJ 45)
	2		La Rioja(EFJ 50)
	1000	USSR	Kaunus
	50		Kaliningrad
	50		Uralsk
	2/0.1	Yugoslavia	Tuzla+5 LP
	1	Angola	Silva Porto
		Canary Isl.	Santa Cruz de la
			Palma(ECS 16)
1390	2×400	Iran	Ahwaz
1394	500	Albania	Lushnje
	25	Austria	Graz
	0.2/0.1		8 LP
	1	Azores	Angra do Heroismo
	1	Germany W	Augsburg(AFN)
	0.5		Bitburg(AFN)

kHz	kW	Country	Station/Location
1394	0.25		Crailsheim(AFN)
	2	Spain	Zaragoza(EAK 6)
	2		Jerez(EAK 17)
	2		Cordoba(EAK 20)
	2		Badajoz(EAK 21)
	2		Zamora(EAK 26)
	2		Alicante(EAK 31)
	2		Vigo(EAK 33)
	2		San Sebastian(EAK 44)
	2		Albacete(EAK 46)
	2		Astorga(EAK 48)
	2		3 stns
		USSR	1 st Ukraine(V)
	1-0.05	Yugoslavia	3 LP
	10	Libyan Arab Rep.	Tobruk
	5	Malagasy	Tananarive
	10	Togo	Lomé
	10	Iran	Bandar Abbas
1397	0.25	Nigeria	8 LP
1400	0.01	Iceland	Hofn(AFRTS)
	0.25	Burundi	Bujumbura(9UZ23)
	0.1	Saudi Arabia	Abqaiq(Aramco Radio)
1403	20	France	Brest/Clermont Ferrand
			Pau
	8		Bastia
	1		Besancon/Dijon/Grenoble
	5	Greece	Komotini(EIP)
	30	USSR	Lvov
	30		Dnepropetrovsk
	25		Izmail
	5		Baranovitchi
	10	Yugoslavia	Sombor(LS)+1 st
	1	Angola	Lobito(V)
	100	Guinea	Conakry
1410	750	Oman	Masirah Isl.(BBC Relay)
1412	4	Finland	Turku 2
	2		Helsinki 2
	2	Germany W	Bad Mergentheim(SDR 1)
	0.02	Iceland	3 LP
	2	Spain	Santiago de Compostela
	2		Pamplona(EAJ 6)
	2		Castellon(EAJ 14)
	2		Granada(EAJ 16)
	2		Murcia(EAJ 17)
	2		Tarrasa(EAJ 25)
	2		Castilla(EAJ 27)
	2		Onteniente(EAJ 30)
	2		Gijon(EAJ 34)
	2		Segovia(EAJ 64) (rep. 1430)
	2		Ciudad Real(EAJ 65)
	50	USSR	Volgograd
	100	Yugoslavia	Pristina
	20		Gospic
	2		Osijek
	10	Canary Isl.	S. Cruz de Tenerife(EAJ 43)
	750	Oman	Masirah Isl.(BBC Relay)
1416	1	Nigeria	Kaduna
1421	1	Finland	Tampere
	1200	Germany W	Saarbrücken Heusweiler
	50	USSR	Valmiera
	30		Batumi
	5		Liepaja/Rezekne/Tchernigov
	0.05	Yugoslavia	4 LP
	40	Algeria	Algiers
	30	Egypt	Sohag
	1	Senegal	St. Louis
	5	Tunisia	Bizerte
	7.5	Cyprus	Zyyi(BBC Relay)
	100	Iran	Kermanshah
1426	10	Iran	Gorgan
1430	70	Denmark	Skive
	10		Copenhagen
	0.1	Great Britain	Reading(IBA)
	2	Italy	Pesaro+2 LP
	50	Romania	Bacau
			Oradea
	5	Spain	Valencia(EAK 5)
	2		Valladolid(EAK 9)
	5		Malaga(EAK 11)
	2		Huelva(EAK 14)
	2		Lerida(EAK 15)

kHz	kW	Country	Station/Location
1430	2		Puertollano(EAK 23)
	2		Leon(EAK 25)
	2		Lorca(EAK 29)
	2		Jaen(EAK 40)
	2		Caceres(EAK 57)
	2		Lugo(EAK 58)
	2		Ciudadela(EAK 67)
	2		Figueras(EAK 82)
	500	USSR	Krivoy Rog
	1	Yugoslavia	B. Palanka(LS)
	1		B. Topola(LS)
	60	Mali	Bamako(V)
	5	Mozambique	Beira
1439	1200	Luxemburg	Marnach
	10	Yugoslavia	Zadar
			Masurata Zouw
	1		Zajecar(LS)
	10	Israel	El Arish(IDF)
1448	50	Italy	Squinzano
	25		Turin
	9/0.1		27 LP
	1	Portugal	Coimbra
	30	USSR	Kalinin
	50		Kishinev
			Unknown, European RSFSR
	0.1	Yugoslavia	Srbobran(LS)+LP
	2	Zaire	Kinshasa
	20	Libyan Arab Rep.	Musurata
1454	20	Libyan Arab Rep.	Tripoli
1457	0.1	Austria	Judenburg+7 LP
	500	Albania	Dürres
	50/20	Great Britain	London(BBC local)
	10		Birmingham(BBC local)
	1		Manchester(BBC local)
	2/0.5		Newcastle/Carlisle(BBC local)
	1		Plymouth(R4)
	50	Romania	Constanta 2
	10	Yugoslavia	Svetozarevo+3 LP
		Morocco	Casablanca
	2	Zambia	Kabwe
1460	0.1	Portugal	Carmulo(CSB 20)
1466	400	Monaco	Monte-Carlo Fontbonne
	1/0.25	Norway	Kautokeino+5 LP
	30	USSR	Yalta
	0.05	Yugoslavia	5 LP
1473		Cyprus	Nicosia(Bayrak)
		Iraq	Baghdad
1475	600/240	Austria	Bisamberg
	0.05		4 LP
	2	Spain	Logrono(EAJ 18)
	2		Oviedo(EAJ 19)
	2		Sabadell(EAJ 20)
	2		Gandia(EAJ 23)
	2		Cordoba(EAJ 24)
	2		Santander (EAJ 32)
	2		Pontevedra(EAJ 40)
	2		Elche(EAJ 53)
	2		Cadiz(EAJ 59)
	2		Almeria(EAJ 60)
	2		Zamora(EAJ 72)
	120	USSR	Lvov
	150		Baku
	0.5	Yugoslavia	Tetovo
	80	Congo Rep.	Brazzaville
	20	Benin	Cotonou
	5	Egypt	Minia/Qena
	10	Iran	Sanandaj
1480	0.1	Saudi Arabia	Dhahran (Aramco Radio)
	2	Turkey	Trabzon
	600	United Arab Emirates	Dubai
1484	0.2	Austria	St. Pölten
	5/2	Belgium	Liege/Bredene
	5	Czechoslovakia	Brno II
	1	Finland	Pietersaari+1 LP
	1	France	Perpignan+1 LP
	1	Gibraltar	Wellington Front
	5	Germany W	Berlin(SFB 2)
	0.2		4 LP(SDR 1)
	2	Great Britain	Edinburgh/Glasgow(R2)
	2		Dundee/Redmoss(R2)
1484	2/0.5		Bournemouth/Torquay/ Torbay(R1)
	1		Brighton/Oxford(BBC local)
	1		Hull/Liverpool(BBC local)
	1	Greece	Volos(EIPT)
	0.25	Iceland	Keflavik(AFRTS)
	0.02		3 LP (Rikisutvarpid)
	2	Italy	Bolzano+11 LP
	1	Norway	Karasjok+4 LP
	2	Poland	11 LP
	2	Romania	Baia Mare+4 LP
	2	Spain	Valladolid(EFE 1)
	2		Teruel(ECS 1)
	5	USSR	Liepaja
	2		Kiev
	6/0.1	Yugoslavia	45 LP
	5		Sarajevo("202")
	2		Pec(LS)
	1	Angola	Dundo (Diamang)
	0.2	Ascension Isl.	Georgetown(BBC Relay)
	5/1	Libyan Arab R.	Benghazi/Derna
	1	Madeira	Funchal(CSB 90)
	0.3	Morocco	Kenitra(AFRTS)
	0.1	Niger	Tillabéry
	0.5	Cyprus	Limassol
	1	Iran	12 LP
	2	Turkey	Akcaabat+1 st
1489	0.02	Iceland	Hellissandur
1493	0.05	Austria	Kitzbühl 2+3 LP
	8	France	Ajaccio
	4		Bayonne
	0.05		Tours
	5	Greece	Rhodes(EIPT)
	10	Holland	Hulsberg III
	150	USSR	Leningrad
	10	Yugoslavia	Svetozarevo
	7		Zagreb
	2		Murska Sobota
	2		Dubrovnik
	1/0.05		7 LP
	5	Ivory Coast	Abidjan
	5	Mozambique	Pemba
	10	Israel	?
1495	0.02	Portugal	Guarda(CSB 21)
1500	0.25	Azores	Lajes, Terceira
	5	Cyprus	Nicosia (Bayrak-Channel Two)
	10	Iran	Tabriz
	1		Ahvaz
1502	0.8	Germany W	Münster(WDR 1)
	0.25		Garmisch+4 LP(AFN)
	0.5	Great Britain	Stoke(BBC local)
	300	Poland	Stargard Szczecinski
	2	Spain	Sevilla(EAK 2)
	2		Burgos(EAK 3)
	2		Pamplona(EAK 4)
	2		Murcia(EAK 12)
	2		Bilbao(EAK 13)
	2		Salamanca(EAK 19)
	2		Ciudad Real(EAK 22)
	2		Ibiza(EAK 24)
	2		Granada(EAK 39)
	2		El Ferrol(EAK 43)
	2		Guadalajara(EAK 52)
	2		Orense(EAK 59)
	2		Castellon(EAK 78)
	2		Aviles(EAK 91)
	30	USSR	Sochi
			2 unknown sts European RFSR
	7	Yugoslavia	Belgrade "202"
	2		Livno+5 LP
	1	Angola	Benguela
		Malagasy	Tananarive 2
	1	Senegal	Tambacounda
	10	Togo	Lama-Kara
	1	Cyprus	Nicosia(BFBS) (V)
1510	0.02	Iceland	3 LP
1511	20	Belgium	Veltem 2
	250	Germany E	Berlin Köpenick(RBI)
	5	Greece	Chania+1 LP(EIPT)

kHz	kW	Country	Station/Location
1511	100	USSR	Aktiubinsk
	30		Tallinn
	30		Sochi
	5		Kiev
	10	Yugoslavia	Skopje 2+2 LP
	1	St.Helena	Jamestown
1515	0.5	Cyprus	Gazi Baf
	10	Lebanon	VOP
1520	30/60	Czechoslovakia	Ceske Budejovice I
	30/60		Karlovy Vary
	6		Hradec Kralove
	3		Usti nad Labem
	3		Mnichovo Hradiste
	1	Great Britain	Nottingham(BBC local)
	2	Spain	Alicante(EAJ 31)
	2		Gerona(EAJ 38)
	2		Lerida(EAJ 42)
	2		Albacete(EAJ 44)
	2		Valladolid(EAJ 47)
	2		Vigo(EAJ 48)
	2		Toledo(EAJ 49)
	2		Alcira(EAJ 54)
	2		Jerez(EAJ 58)
	2	Spain	Jaen(EAJ 61)
	2		Lugo(EAJ 68)
	0.25	Congo Rep.	Pointe Noire
	1	Gabon	Pt. Gentil
	2	Morocco	Melilla(EAJ 21)
	2	Zambia	Livingstone
	1	Iran	Hamadan
1525		USSR	Several
	0.1	Niger	Tera
1529	150/450	Vatican	Vatican City(HV 100)
	1	Angola	Sa da Bandeira
	0.25		Cubal
	1	Madeira	Funchal(CSB 91)
	20/10	Iran	Yazd
1535	50	United Arab Emirates	Sharjah
1538	700	Germany W	Mainflingen(DLF)
	25	USSR	Yalta
	10		Vologda
	10	Yugoslavia	Gevgelija
	0.2		2 LP
	4	Afar & Issas	Djibouti
	0.1	Chad	N'djamena
	0.1	Benin	Parakou
	10	Senegal	Dakar 1
	2/1	Iran	Bandar Boushehr
			Khash
1540	50	Int. waters	"Voice of Peace"
1546	0.05	Austria	Abtenau 2+4 LP
	5	Germany E	Seelow
	5/1	Great Britain	Bristol/Middlesbro'(BBC)
	7.5		London(IBA)
	1		Liverpool(IBA)
	2		Edinburgh(IBA)
	0.3		Sheffield(IBA)
	50	USSR	Vinnitsa
	10	Yugoslavia	Ohrid
	0.15		Vojka(LS)
	20	Iran	Marivan
1554	300	France	Nice 2
	75	USSR	Kaunas
	50		Veshintos
	5		Klaipeda
	2	Yugoslavia	S. Jelsah
	20	Gabon	Libréville
1555	10	Iran	Tehran
1562	0.05	Austria	3 LP
	1.25	Greece	Amalias(EIPT)
	1	Portugal	Covilha
	160	Switzerland	Beromünster
	0.5		Basel
	0.2	Yugoslavia	Bosanska Krupa+2 stns
	1	Malagasy	Tamartave
1562	0.35	Mozambique	Beira
1570	1	Azores	Santa Maria(CSB 81)
1570	250	Germany E	Burg
	0.25	Greece	Iraklion(AFRTS)
	600	Malta	Cyclops(DW)
	2	Spain	Leon(EFE 5)
	5		Alicante(EFE 8)
	2		Vitoria(EFE 10)
	2		Castellon(EFE 19)
	5		Santander(EFE 25)
	4		Tortosa(ECS 6)
	2		Tarrega(ECS 7)
	2		Socuellamos(V) (ECS 10)
	2		Cabra(ECS 12)
	4		Marbella(ECS 15)
	2		Soria(EFJ 2)
	2		Béjar(EFJ 38)
	5		Huelva(EFJ 51)
	60	USSR	Leningrad
	5		Yerevan
	5		Odessa
	5		Minsk
	1	Cen.African Rep.	Bangui
	1	Niger	Niamey
	5	Tunisia	Sfax
	0.01	Turkey	Diyabakir(AFRTS)
1575	5	Un. Arab Emirates	Sharjah
1578	50	Italy	Genova+19 LP
	10	Norway	Fredrikstad
	1.3		Nordkapp
	10	Portugal	Porto
	0.1	Benin	Parakou
	5	Ivory Coast	Baouke
1586	800	Germany W	Langenberg(WDR)
	20	USSR	Kurgan
	5		Baku
	5		Kishinev
	5		Dnepropetrovsk
	5	Angola	Cabinda
1586	5	Egypt	Luxor
	1	Upper Volta	Bobo Dioulasso
	1	Iran	13 LP
1590	0.01	Turkey	Karamursel/Adana(AFRTS)
1594	0.05	Austria	3 LP
	2	Belgium	Kuurne
	3	Czechoslovakia	Liberec
	3		Jeseniky
	0.05	France	Toulon
	1	Great Britain	Foxdale(R. Manx)
	0.5		Leicester/Southampton (BBC local)
	0.25		Bournemouth/Dundee(R3)
	0.25	Greece	Athens(AFRTS)
	10	Holland	Hoogezand
	15	Hungary	Miskolc
	5		Magyarovar
	2	Italy	Bolzano+8 LP
	2	Poland	7 LP
	10	Portugal	Coimbra+1 st
	20	USSR	Unknown(Europe)
	10	Yugoslavia	Kraljevo+2 LP
	0.6	Algeria	Bougie
	1	Angola	Huambo
	1	Morocco	Marrakech
	0.1	Niger	2 LP
	1	Saudi Arabia	Jeddah
1595	0.1	Niger	3 LP
1598	0.1	Benin	Cotonou
1600	1	Ascension	Georgetown(AFRTS)
1602	370/185	Germany W	Munich Ismaning(BR)
		USSR	Unknown BLR
	1	Iran	19 LP
1610		Greece	Ierapetra (R.S. Anatolis Kritis)
1615		Yugoslavia	P. Subotica (R. Stantzie P.S.)
1615		Italy	"Gamma Radio"
1620		Greece	Kalamata
1622		Greece	Amfissa (R.S. Phokis)

SOUTH, SOUTH-EAST/EAST ASIA AND PACIFIC

Abbreviations peculiar to the E. Asia-Pacific section of the MW frequency list: **General:** C=City; CP=Construction Permit; FS=Foreign(External) Service; FP=Future Plan; PO=Present Operation; Proj=Projected station; Unk=Unknown location.

Australia: The numeral preceding the call letters indicates the state: 2=New South Wales; 3=Victoria; 4=Queensland; 5=South Australia; 6=Western Australia; 7=Tasmania; 8=Northern Territory; ACT=Australian Capital Territory.

China, PR: Provinces (old transliteration within brackets): Ah=Anhui(Anhwei); Fj=Fujian(Fukien); Gs=Gansu(Kansu); Gd=Guangdon(Kwangtung/Canton); Gh=Guizhou(Kweichow); He=Hebei(Hopei); Hb=Hubei(Hupei); Hj=Heilongjiang(Heilunkiang); Hn=Henan(Honan); Hu=Hunan; Js=Jiangsu(Kiangsu); Jx=Jiangxi(Kiangsi); Jl=Jilin(Kirin); Ln=Liaoning; Nm=Neimenggu(Nei Mengku/Inner Mongolia); Nx=Ningxia(Ninghsia); Qh=Qinghai(Tsinghai); Sd=Shandong(Shantung); Sh=Shanghai; Sx=Shanxi(Shansi); Si=Shaanxi(Shensi); Sc=Sichuan(Szechwan); Xj=Xinjiang(Sinkiang); Xz=Xizang(Hsitsang/Tibet); Yn=Yunnan; Zj=Zhejiang(Chekiang).

Programmes: CPBS=Central People's Broadcasting Station; C1/2/3=Central Programme 1, 2 or 3; TS=Special Taiwan Service;;PS(P1/2)=Provincial Service(s); MS=Municipal Service; CS=Capital(City) Service; ED=Educational Programme; FF=Fujien Front Station(PLA); FS=Foreign Service("R Peking"); FS/R=FS in Russian.

Philippines: Abbreviations of provinces: See text section.

USSR: Regions in the Asian parts of USSR: Kaz=Kazakhstan; Kir=Kirghizia; Tad=Tadzhikistan; Tur=Turkmenia; Uz=Uzbekistan; FE=Far East; Sib=Siberia.

Special note on PR China: More than 1.000 MW trs of 0.3-500kW power have been registered by PR China with the International Frequency Registration Board(IFRB) of ITU, distributed on most 10kHz channels, plus some 5kHz channels. 500kW is regd. on 1520kHz(cf. list 1525); 300kW txs on 1040/1190/1210/1300kHz; 200kW on 585/670/840/1170/1270/1380/1480/1540kHz; 150kW on 590/640/720kHz; 100kW for 25 txs, etc. Due to the uncertain status of these registrations, they are generally not reflected in the following listing. Locations and services listed are those identified by monitors. However, transmitter power, where indicated, is the one registered with IFRB.

kHz	kW	Call	Country	Location (Name)
155	100		USSR	Ashkhabad, Tur.
	1000			Khabarovsk, FE
162	10		Mongolia	Tsetserlig
164	150		USSR	Tashkent, Uz.
173	500		USSR	Yakutsk, Sib.
	50			Blagoveschensk, Sib.
182	250		USSR	Alma Ata, Kaz.
	150			Aktyubinsk, Kaz.
	150			Petropavlovsk, FE
	150			Chita, Sib.
191	50		USSR	Barnaul, Sib.
	1000			Blagoveshchensk, Sib.
200	250		USSR	Irkutsk, Sib.
	50			Yakutsk, Sib.
	150			Frunze, Kir.
209			Mongolia	Ulan Bator
	30		USSR	Blagoveshchensk, Sib.
	30			Skovorodino, Sib.
	50			Nukus, Uz.
218	100		USSR	Khabarovsk, FE
	300			Yeniseysk, Sib.
227	150		Mongolia	Ulan Bator
	50		USSR	Nizhniy Tagil, Sib.
236	500		USSR	Mary, Tur.
	1000			Magadan, FE
	500			Irkutsk, Sib.
245	1000		USSR	Vladivostok, FE
	500			Taldy Kurgan, Kaz.
254	300		USSR	Dushanbé, Tad.
263	150		USSR	Karaganda, Kaz.
	1000			Chita, Sib.
272	150		USSR	Novosibirsk, Sib.
	30			Birobidzhan, FE
	500			Dushanbé, Tad.
281	150		USSR	Ulan Ude, Sib.
	150			Ashkhabad, Turk.
	150			Yuzno-Sakhalinsk, FE
530	5	2KM	Australia	Kempsey
	2	3UL		Warragul
	5	4KZ		Innisfail
	0.6	5UV		Dry Creek(Adelaide)
	10	6DL		Dalwallinu(ABC3)
	100		India	Jodhpur A
	10	JOQG	Japan	Morioka(NHK1)
	300		Pakistan	Peshawar
540	10	4QL	Australia	Longreach(ABC3)
	2	7SD		Scottsdale
			China, PR	Unk(C1)
540	0.5		India	Aijal
	5	JOJG	Japan	Yamagata(NHK1)
	1	JOJU/MG/SG/SK		Nanao/Miyazaki/Matsumoto/Kitakyushu (NHK1)
	1			Ishigaki, Ryukyu(NHK1)
	1	HLCZ/SC/SM/SN	Korea, S.	Hongseong/Jeonchon/Jangheung/jangsu(KBS)
	2.5/1	DXBB	Philippines	Malaybalay, Buk.
	5/1	DYRB		Cebu C.
	10	DZWT		Baguio C.
	10		Thailand	Bangkok
545	20		Hong Kong	R.HK(Engl.)
	10		Mongolia	Tsetserlig(Proj)
548	1000		USSR	Alma Ata, Kaz.
	50			Duxhanbé, Tad.
	50			Yakutsk, Sib.
	150			Svobodnyy, Sib.
	150			Vladivostok, FE
	50			Magadan, FE
549	20		Malaysia	Miri, Sarawak
550	50	2CR	Australia	Orange(ABC3)
	5	KMVI	Hawaii	Wailuku, Maui
	100		India	Bombay B
	10	JOAP	Japan	Naha(NHK1)
	100		Malaysia	Ipoh
	20			Kuching, Sarawak
	10		Mongolia	Uburkhangai(proj)
	5	DXDD	Philippines	Ozamiz C.
	1	DYCI		Iloilo C.
555	20		Sri Lanka	Diyagama(rep. 558)
	10		Thailand	Bangkok(nom. 550)
560	0.4	2ML	Australia	Murwillumbah(ABC3)
	1	2—		Tomerong(ABC3(CP)
	2	4AM		Atherton
	50	6WA		Wagin(ABC3)
	2	7BU		Burnie
			China, PR	Unk(C1)
				Urumqi, Xj(PS/FS/R)
	10	VRH	Fiji	Suva
	10		India	Ranchi A
	0.5			Ludhiana
	0.5			Junagadh
	20	JOCR	Japan	Kobe(R. Kansai)
	1	HLCJ	Korea, S.	Jinju(KBS)
	1	HLCC		Pyeongchang(KBS)
	5			Seoul(AFKN)
	2.5/1	DXBI	Philippines	Basilan C.

kHz	kW	Call	Country	Location (Name)
560	5/2.5	DXCD		Tagum, Dvo Nte
	1	DZCI		Cabanatuan C.
	10		Thailand	Chaiyaphum
			USSR	2 unk, E.Sib./FE
565			Korea, N.	Pyongyang(KCBS)
566	50		USSR	Yeniseysk, Sib.
568	10		Malaysia	Tenom, Sabah(FP-576)
570	0.5	2BH	Australia	Broken Hill
	10	4JK		Julia Creek(ABC3)
			China, PR	Unk(C1)
	1	BEV58	Taiwan	Taichung+Chingshui (Cheng Sheng)
	5	KATB	Guam	Agana(Magof)
	5	KIVM	Hawaii	Lihue, Kauai
	100		India	Dibrugarh
	0.5			Jabalpur
	100	JOIK	Japan	Sapporo(NHK1)
	10	HLKF	Korea, S.	Jeonju(KBS)
	1	HLCV		Yeongweol(KBS)
			Laos	Luang Prabang
	50		Malaysia	Johore Bahru
	10		Mongolia	Gobi Altai
	100	2YA	NewZealand	Wellington
	10	DYDY	Philippines	Cebu C.
	2.5	DZAG		Agoo, LU.
	10		Sri Lanka	Senkadagala
	10		Thailand	Bangkok
			Vietnam	Unid(rep.)
575	10	HLKR	Korea, S.	Gangneung(KBS)
	1	HLKD		Masan(KBS)
	50		USSR	Osh, Kir.
	500			Irkutsk(or Chita), Sib.
	100			Sverdlovsk, Sib.
				Novosibirsk, Sib.
	150			Khabarovsk/Komsomolsk, FE
	50			Petropavlovsk-Kamch, FE
580	50	4QR	Australia	Brisbane(ABC1)
			China, PR	Fuzhou, Fj(PS)
	100		India	Alleppey
	10	JOHG	Japan	Kagoshima(NHK1)
	10	JOPG		Kushiro(NHK1)
	5		Korea, S.	Daegu/Munsan-Ni(AFKN)
	1000		Pakistan	Islamabad/Rawalpindi
	10	DZBB	Philippines	Quezon C.
	20		Thailand	Prachinburi
	2		Tuvalu	Funafuti
584	500		USSR	Svobodnyy, Sib.(FS)
585	100		Indonesia	Surabaya(RRI)(Proj)
			Korea, N.	Pyongyang
587			Vietnam	Hanoi
590	50	3WV	Australia	Horsham(ABC3)
	150		China, PR	Wencheng, Fj(TS)
	100			Jinan, Sd(PS)
	100			Lhasa, Xz(PS)
	1	BEH2	Taiwan	Taipei(Fu Hsing)
	1	BEH24		Hsinchu(Fu Hsing)
	1	BEH30		Miaoli(Fu Hsing)
	1	BEH38		Taichung(Fu Hsing)
	5	BEH48		Chiayi(Fu Hsing)
	1	BEH68		Pingtung(Fu Hsing)
	5	KGMB	Hawaii	Honolulu
	1000		India	Calcutta
	20			Nagpur A
	100	JOAK	Japan	Tokyo(NHK1)
	10	HLAG	Korea, S.	Yeongju(KBS)
	200		Malaysia	Kuala Lumpur
	10			Batu Melintang
	10		Mongolia	Muren(Proj)
	1	DWHB	Philippines	Baguio C.
	10		Thailand	Khon Kaen
	10			Chumphon
593	150		USSR	Yeniseysk, Sib.
600	2	4GY	Australia	Gympie
	1	4MS		Mossman(ABC3)
	0.6	6NM		Northam(ABC3)
	6	6PH		Port Hedland(ABC3)
	10	7ZL		Hobart(ABC2)
			China, PR	Unk(C2)
				Fujian prov.(FF)
	500	BED76	Taiwan	Luchiang(CBS)

kHz	kW	Call	Country	Location (Name)
600	10	ZK1ZC	Cook Is.	Rarotonga
	20		India	Ajmer
	5	JOKK	Japan	Okayama(NHK1)
	1	JOCY		Nayoro(NHK1)
	500	HLCA	Korea, S.	Namyang(alt. fq. 595)
	20		Malaysia	Kota Kinabalu, Sabah (FP-603)
	10	DWKW	Philippines	Quezon C.
	10	DYHP		Cebu C.
	1	DZVV		Vigan, I.S.
	50		Sri Lanka	Weeraketiya(rep. 603)
	20		Thailand	Bangkok
602	50		USSR	Salekhard, Sib.
603			China, PR	Fujian prov(TS)
610	50	2FC	Australia	Sydney(ABC2)
	30		China, PR	Shanghai?(C2)
	10	KUAM	Guam	Agana(R. Guam)
	10		Hong Kong	Commercial R.
	100		India	Bangalore A
	100	JOLK	Japan	Fukuoka(NHK1)
	10		Malaysia	Kangar
	10			Batu Pahat
	1	DXMB	Philippines	Malaybalay, Buk.
	20		Thailand	Lopburi
	20		Vietnam	Ho Chi Minh C.
611	300		USSR	Frunze, Kir.
	100			Krasnogorsk, FE
615			China, PR	Heilongjiang(PS/FS)
620	50	3AR	Australia	Melbourne(ABC2)
	100		China, PR	Harbin, Hj(PS/FS/R)
				Kunming, Yn(PS)
	5	KIPA	Hawaii	Hilo
	20		India	Patna A
	3	JOCG	Japan	Asahikawa(NHK1)
	1	JOMT		Nobeoka(NHK1)
	1	JOSQ		Iida(NHK1)
	1	JOOK		Kyoto(NHK1)
	0.05			Iwami(NHK1)
	1	HLAY/CF	Korea, S.	Yeongdong/Seogwipo (KBS)
	0.25	HLSJ		Hwangji(KBS)
	20		Malaysia	Sibu, Sarawak
	0.25	ZK2ZN	Niue Island	Alofi
	50	DWWW	Philippines	Quezon C.
	5	DWLW		Laoag C.
	20		Sri Lanka	Diyagama
			USSR	Unk, FE
625			Korea, N.	Haeju(R. Pyongyang)
629	100		USSR	Khabarovsk, FE
630	50	4QN	Australia	Townsville(ABC3)
	0.4	7QN		Queenstown(ABC3)
			China, PR	Unk(C2)
				Urumqi, Xj(PS)
			Taiwan	Sungling(Chung Hsing/ TBC)
	20		India	Trichur
	1	HLCY/SE	Korea, S.	Neosu/Inje(KBS)
	20	2YZ	NewZealand	Napier
	100		Pakistan	Lahore I
	5	DXBC	Philippines	Butuan C.
	1	DZRL		Batac, IN
	20		Singapore	Singapore(Engl.)
	55	HSKK	Thiland	Khon Kaen
635			China, PR	Nanning, Gx(PS)
			Korea, N.	Chongjin(R. Pyongyang)
	1		Thailand	Surat Thani/Phuket/Yala
640	10	5CK	Australia	Crystal Brook(ABC3)
			China, PR	Unk(C1)
	1	BEH49	Taiwan	Chiayi(Fu Hsing)
				Pingtung(Fu Hsing)
	10		Fiji	Lautoka
	20		Hong Kong	R. HK(Chin.)
	50		India	Kohima
	10	JOPB	Japan	Shizuoka(NHK2)
	50	HLKC	Korea, S.	Seoul(Donyang)
	10		Laos	Vientiane
	2	4YW	New Zealand	Alexandra
	1	DXWW	Philippines	Davao C.
	1	DZXC		S. Fernando, LU
	1	DZYZ		Olongapo C.
	50		Sri Lanka	Maho

kHz	kW	Call	Country	Location (Name)
640	10		Thailand	N. Si Thammarat
	50			Prachinburi(CP)
	1	HSKX		Phuket
	1	HSKY		Yala
645	150		China, PR	Beijing
			Korea, N.	Unk(R. Pyongyang)
	20		Malaysia	Kuala Lipis
647	50		USSR	Omsk, Sib.
	1000			Iman, FE(FS)
650	10	2NU	Australia	Tamworth(ABC3)
	0.4	6AL		Albany(ABC3)
	2	8DR		Darwin(ABC)
			China, PR	Guangdon, Gd(PS1)
	1	BEV37	Yaiwan	Taitung+Chihsang (Cheng Sheng)
		BEV59		Taichung(Cheng Sheng)
	10	KORL	Hawaii	Honolulu
	20		India	Indore A
			Indonesia	Surabaya(R. Merdeka) (nom. 665)
	10		Japan	Naha, Okinawa(FEN)
	5	JOIG		Toyama(NHK1)
	1	HLSL	Korea, S.	Boseong(KBS)
	20		Malaysia	Limbang, Sarawak
	1	DXOR	Philippines	Cagayan de Oro C.
	10	DZRH		Makati, Riz.
	10	HSJS	Thailand	Bangkok
651	1	DYFL	Philippines	Borongan, E. Samar
655			Korea, N.	Unk(R. Pyongyang)
656	50		USSR	Verkhoyansk, Sib.
660	20		Afghanistan	Kabul
	10	2BY	Australia	Byrock(ABC3)
	2	6GF		Kalgoorlie(ABC3)
			China, PR	Unk(C1)
	20	BED34	Taiwan	Taipei(BCC1)
	5		India	Trivandrum A
	100			Itanagar
	1			Nagpur B
	5	JOAG	Japan	Nagasaki(NHK1)
	5	JOOG		Obihiro(NHK1)
	10	HLKM	Korea, S.	Chuncheon(KBS)
	10		Malaysia	Penang
	60	2YC	New Zealand	Wellington
	10	DXDC	Philippines	Davao C.
	5/1	DYKC		Cebu C.
	5/1	DZHN		Naga C.
660	20		Thailand	Bangkok
	20			Chiang Mai
665	10		Malaysia	Lahad Datu Sabah (FP-675)
	30		USSR	Tashkent, Uz.
	100			Komsomolsk-na-Amure, FE
	50			Dudinka, Sib.
669	5	DXRD	Philippines	Davao C.
670	10	2CO	Australia	Albury/Corowa(ABC3)
	0.05	6BE		Broome(ABC3)
	0.05	8KN		Katherine(ABC)
	10		China, PR	Jiamusi, Hj(MS)
	200			Dehua, Fj(FF)
			Taiwan	Hsinhua(Chien Kuo)
	5	KPUA	Hawaii	Hilo(PO-970)
	100		India	Calcutta A
	100	JOBK	Japan	Osaka(NHK1)
	0.05			Miki(NHK1)
	20		New Caledonia	Noumea
	2		Papua New Guinea	Lae
674	10	HSKC	Thailand	Bangkok(nom. 670)
	150		USSR	Mary(or Ashkhabad), Tur.
675	100		China, PR	Huhhot, Nm(PS)
678			China, PR	Fujian prov.(TS)
680	10	2KP	Australia	Kempsey(ABC3)
	4	6BS		Bunbury/Busselton(ABC3)
	1	8TC		Tennant Creek(ABC)
	10		China, PR	Mudanjiang, Hj(MS)
	10	BEP24	Taiwan	Chang Hua(Ching Cha)
	3	BEC22		Taipei(Chun Chung)
	2.5		Fiji	Labasa
	10		India	Calicut A
680	20			Kozhikode
	1			Lucknow C
	5	JOUG	Japan	Yamaguchi(NHK1)
	5	JOVK		Hakodate(NHK1)
	10	HLAS	Korea, S.	Gunsan(Seo Hae)
	1	DXJM	Philippines	Butuan C.
	40/10	DZAS		Manila
	20		Singapore	Singapore(Chin.)
683	300		USSR	Kustanay, Kaz.
	30			Abakan, Sib.
685			Korea, N.	Unk(R. Pyongyang)
	20		Thailand	Saraburi(nom. 680)
690	0.5	2—	Australia	Campbelltown(CP)
	2	4QK		Brisbane
	2	5SY		Streaky Bay(ABC3)
	1000		Bangladesh	Dacca
			China, PR	Shenyang, Ln(MS)
	100			Xian, Si(PS)
	3	BEC32	Taiwan	Tainan(Chun Chung)
	10	KKUA	Hawaii	Honolulu
	20		India	Rajkot A
	300	JOAB	Japan	Tokyo(NHK2)
	20		Malaysia	Kota Kinabalu, Sabah (FP-693)
	20	3YA	New Zealand	Christchurch
	1	DWGW	Philippines	Legaspi C.
	1	DXDX		Gen. Santos C.
	5	DYEZ		La Carlota C.
	1	DZTG		Tuguegarao, Cag.
	20		Sri Lanka	Amparai(Proj)
	50		USSR	Anadyr, FE
692			Korea, N.	Unk(R. Pyongyang)
694	1	DXCP	Philippines	Cagayan de Oro C.
695			Korea, N.	Chongjin
	10		Thailand	Bangkok(nom. 690)
700	50	2NR	Australia	Grafton(ABC3)
	50		China, PR	Nanjing, Js(PS/TS)
				Urumqi, Xj(PS)
	10	BEC25	Taiwan	Taoyuan(Chun Chung)
	20		India	Siliguri
	10	JOFB	Japan	Hiroshima(NHK2)
	10	JOKD		Kitami(HNK2)
	10		Malaysia	Kota Bahru
	1	DZLU	Philippines	S. Fernando, LU
	50		Sri Lanka	Diyagama
701	50		USSR	Dushanbé, Tad.
	20		Thailand	Bangkok
				Chiang Mai(nom. 710)
710	10	4QW	Australia	St. George(ABC3)
	10	7NT		Launceston/Kelso(ABC3)
			China, PR	Unk(C2)
	10	BEC72	Taiwan	Tainan(Kung Chun)
	10		Fiji	Suva
	100		India	Jullunder B
	500	HLKA	Korea, S.	Seoul(KBS)(Alt. 715)
	10/5	DXRA	Philippines	Davao C.
	10		DZFM	Manila
	20		Thailand	Bangkok
	50		USSR	Blagoveshchensk, Sib.
			China, PR	Fuzhou, Fj
715	10		Thailand	Lopburi(nom. 700)
716	1	DZGB	Philippines	Legaspi C.
718	1	DYHB	Philippines	Cacolod C.
720	0.05	2AN	Australia	Armidale(ABC3)
	2	3MT		Omeo(ABC3)
	4/2	4AT		Atherton(ABC3)
	50	6WF		Perth(ABC1)
	150		China, PR	Beijing/Peking(C2/FS)
	10	BED58	Taiwan	Taichung(BCC1)
	5	KUAI	Hawaii	Eleele, Kauai
	20		India	Madras A
	5	JODF	Japan	Morioka(IBC)
	1	JOIL		Kokura(KBC)
	0.1			3 sts(Comm.)
	200		Malaysia	Kuala Lumpur
	20	4YZ	New Zealand	Invercargill
	10		Thailand	Songkhla
	10			Chiang Mai
			Vietnam	Ho Chi Minh C.
721	1	DZYI	Philippines	Ilagan, Isa.
723	1	DXIC	Philippines	Iligan C.

kHz	kW	Call	Country	Location (Name)
725			Korea, N.	Kimchaek(KCBS)
	55	HSKT	Thailand	N. Ratchasima (nom. 74)
728	50		USSR	Ashkhabad, Tur.
730	50	5CL	Australia	Adelaide(ABC2)
			China, PR	Nanchang, Jx(PS)
				Fujian prov.(TS)
	0.5	BEE43	Taiwan	Taipei(Shi Hsin)
				Hengtsun(Chen Kung)
	50		India	Gauhati A
	10	JOCK	Japan	Nagoya(NHK1)
	20		Malaysia	Kuching, Sarawak
	10		Pakistan	Peshawar II
	1	DWBW	Philippines	Baguio C.
	2.5/1	DWRL		Lipa C.
	1	DXND		Kidapawan, N. Cotob
	1	DYBR		Tacloban C.
	20		Thailand	Bangkok
735		Korea, N.	Pyong Kang	
				(R. Pyongyang)
	10		Macau	Macao(Em. Vila Verde)
737	50		USSR	Chelyabinsk, Sib.
740	50	2BL	Australia	Sydney(ABC1)
			China, PR	Urumqi, Xj(PS)
	60			Changchun, Jl(PS)
	50		India	Hyderabad A
	5	JOJF	Japan	Kofu(YBS)
	5	JOLR		Toyama(KNB)
	5	JORR		Naha(RBC)
	100	HLKG	Korea, S.	Daegu(KBS)
	100		Malaysia	Ipoh
	10/5	DXMC	Philippines	Davao C.
	5	DZBM		Quezon C.
	1	DZCV		Tuguegarao, Cag.
	20		Society Is.	Papeete, Tahiti
746	200		USSR	Karaganda?, Kaz.
	15			Arkalyk, Kaz.
750	10	4QS	Australia	Toowoomba/Dalby (ABC3)
			China, PR	Fujian prov.(TS)
	1	BEH31	Taiwan	Miaoli(Fu Hsing)
	1	BEH95		Keelung(Fu Hsing)
	1			Hsinchu/Hualien/Taipei (Fu Hsing)
	125	BED2		Minhsiung(CBS)
	0.5		India	Ernakulam
	100	JOIB	Japan	Sapporo(NHK2)
	500	HLSA	Korea, S.	Suweon(KBS)
	20		Laos	Vientiane
	10		Malaysia	Tawau, Sabah(FP-747)
	2	3ZA	New Zealand	Greymouth
	750		Pakistan	Quetta/Yaru
	1	DWNW	Philippines	Naga C.
	1	DXRI		Iligan C.
	1	DZNL		Bawang/Nalinac, LU
	10		Thailand	Bangkok
			Vietnam	Viet Bac
751	1	DXGS	Philippines	Gen. Santos C.
760	2	2TR	Australia	Taree(ABC3)
	10	3—		Wangaratta(Proj)
	2	4QA		Mackay(ABC3)
	0.1	6KW		Kununurra(ABC3)
			China, PR	Unk(C1)
			Taiwan	Penghu(Sheng Li)
	10	KGU	Hawaii	Honolulu
	100		India	Lucknow A
	10	JOGK	Japan	Kumamoto(NHK1)
	10	HLCQ	Korea, S.	Daejon(MBC)
	20	1YA	New Zealand	Auckland
	5/1	DYCB	Philippines	Cebu C.
764	30		USSR	Chardzhou, Tur.
765			Indonesia	Surabaya(R. Antariksa)
			Korea, N.	Unk(KCBS)
	10		Malaysia	Kuala Trengganu
770	50	3LO	Australia	Melbourne(ABC1)
	100		China, PR	Wuhan, Hb(PS)
			Taiwan	Taichung(Fu Hsing)
	5	BEV88		Taoyuan(Hsien Sheng)
	10	KTWG	Guam	Agana(TWR)
	100		India	Simla
			Indonesia	Jakarta(R. Metro Jaya)

kHz	kW	Call	Country	Location (Name)
770	0.25			Denpasar(R. Casanova)
	500	JOUB	Japan	Akita(NHK2)
	10	HLAJ	Korea, S.	Jeju(MBC)
	10	HLAN		Chuncheon(MBC)
	10		Malaysia	Bata Melintang
	2	DWHL	Philippines	Olongapo C.
	1	DXMZ		Gen. Santos C.
	5/1	DYPR		Pto. Princesa C, Pal.
	1	DYRR		Ormoc C.
	1	DZJC		Laoag C.
	2.5	DZJO		Infanta, Que.
	10		Thailand	Udon Thani
774			Korea, N.	Hyesan(V)
	10		Malaysia	Tenom, Sabah
780	2	2KA	Australia	Katoomba
	2/1	4TO		Townsville
	2	6VA		Albany
			China, PR	Shijiazhuang, He(MS)
	1	BED92	Taiwan	Tainan(BCC2)
	5	JOXK	Japan	Tokushima(NHK1)
	3	JOIU		Muroran(NHK1)
	1	JOBS		Hikone(NHK1)
	5	JOXR		Naha(ROK)
	5		Korea, S.	Pusan(AFKN)
	10		Malaysia	Sandakan, Sabah (FP-783)
	20	4YA	New Zealand	Dunedin
	10	DXCC	Philippines	Cagayan de Oro C.
	5	DZRJ		Manila
	1	DZYT		Tuguegarao, Cag.
	10		Sri Lanka	Anuradapura
	20		Thailand	Lopburi
782	30		USSR	Tselinograd, Kaz.
	300			Ashkhabad, Tur.
	75			Spassk Dalniy, FE
785			Korea, N.	Unk(KCBS)
	20		Thailand	Bangkok(nom. 790)
790	10	4QG	Australia	Brisbane(ABC2)
			China, PR	Tianjin
	1	BEV79	Taiwan	Keelung(Chen Hua)
	1	BEV94		Taichung(TBC)
	5	KKON	Hawaii	Kealakekua
	20		India	Poona A
	1	JOCQ/ QX/HI	Japan	Takayama/Takada/ Naze(NHK1)
	1			Enbetsu(NHK1)
	0.1			4 sts(NHK1)
	50	HLKJ	Korea, S.	Seoul(Dong A)
	10		Nepal	Kathmandu(rep. 780)
	100		Pakistan	Karachi
	100		Singapore	R. Singapore (FP-750kW)
			Vietnam	Tay Bac
791	1	DZAB	Philippines	Angeles C.
792	1	DYVL	Philippines	Tacloban C.(CP-1240)
	1	DZXE		Vigan, I.S.
795	20		China, PR	Shanghai(MS)
798			China, PR	Guangzhou/Canton, Gd(PS)
800	0.5	2EA	Australia	Sydney
	1	2—		Moruya(ABC3)(CP)
	2	4QY		Cairns(ABC3)
	2	5RM		Berri
			China, PR	Xining, Qh(PS)
				Beijing(MS)
	20		India	Bhadravathi
	0.1		Japan	8 sts(Comm.)
			Korea, N.	Kimchaek(R. Pyongyang)
	10		Malaysia	Kudat, Sabah(FP-801)
	20	2YB	New Zealand	Wellington
	5		DWIZ	Philippines Makati, Riz
	1	DWZR		Legaspi C.
	1	DXRE		Gen. Santos C.
	5	DYFM		Iloilo C.
	10		Thailand	Chiang Rai
	5			Lopburi
	3.5			N. Ratchasima
	5			Ubon Ratchathani
	5			Prachuap Khiri Khan
	1000/500		USSR	Dushanbé, Tad.
	1000			Ulan Ude, Sib.

kHz	kW	Call	Country	Location (Name)
803	1	DXBL	Philippines	Bislig, S. Sur.
			Vietnam	Hanoi
805			China, PR	Baotou
809	100		India	Delhi A
810	10	2BA	Australia	Bega(ABC3)
	10	6WN		Perth(ABC2)
			China, PR	Hangzhou, Zj(PS)
	1	BEV54	Taiwan	Changhua(Kuo Sheng)
	5		Fiji	Labasa
	50		Japan	Tokyo(FEN)
			Korea, N.	Unk(KCBS)
	20	HLCT	Korea, S.	Daegu(MBC)
	10		Malaysia	Kuantan
	2		Papua, New Guinea	Rabaul
	1	DYME	Philippines	Masbate
	10	HSKJ	Thailand	Khon Kaen
	10	HSLC		Trang
	50		USSR	Bodaybo, Sib.
	150			Vladivostock, FE
811	1	DXMI	Philippines	Iligan C.
	1	DZSP		San Pablo C.
813			Korea, N.	Kaesong
820	10	2GL	Australia	Glen Innes(ABC3)
	100		Bangladesh	Dacca A
	100		China, PR	Fujian prov.(FF)
	1	BEH54	Taiwan	Kaohsiung(Fu Hsing)
		BEH—		Hualien(Fu Hsing)
	5	BEP28		Kaohsiung(Ching Cha)
	1	BEV34		Taipei(Cheng Sheng)
	1	BED28		Taitung(BCC1)
	1	ZK1ZC	Cook Island	Rarotonga
	100		Indonesia	Medan(RRI)
				Jakarta(R. Prambors)
	1	JOCP/ NK/IP/GQ	Japan	Koriyama/Nagano/Oita/ Hitoyoshi(NHK1)
	0.5-0.1			3 sts(NHK1)
			Korea, N.	Najin(KCBS)
	20	HLCN	Korea, S.	Gwangju(MBC)
	20		Malaysia	Miri, Sarawak
	10	4ZA	New Zealand	Invercargill
	1	DWFA	Philippines	Sorsogon, Sor.
	2.5	DXSS		Davao C.
	5/1	DYKA		San José, Ant.
	5	DYRE		Mandawe C.
	10		Vietnam	Ho Chi Minh C.
821	1	DWZR	Philippines	Legaspi C.
822	0.25		Sri Lanka	Senkadagala
827	50		USSR	Kyzyl, Sib.
830	10	3GI	Australia	Sale(ABC3)
	5		4NA	Nambour
	2	6GN		Geraldton(ABC3)
			China, PR	Fuzhou, Fj
	1	BEV56	Taiwan	Tainan(Sheng Li)
	10	KIKI	Hawaii	Honolulu
	0.5		India	Varanasi
	300	JOBB	Japan	Osaka(NHK2)
	0.05			Miki(NHK2)
	10		Malaysia	Lahad Datu, Sabah (FP-828)
	2	1YX	New Zealand	Whangarei
	10		Pakistan	Karachi I
	1	DXRB	Philippines	Butuan C.
	5	DZCA		Manila
	100	HSKA	Thailand	Bangkok
			Vietnam	Hanoi
835			China, PR	Nanchang, Jx(PS)
840	0.5	3CR	Australia	Melbourne
	10	4RK		Rockhampton(ABC3)
	1	6ED		Esperance(ABC3)
	0.5	7QT		Queenstown
			China, PR	Harbin
				Fuzhou, Fj
	10	BEC38	Taiwan	Penghu(Chun Chung)
	20		India	Vijayawada A
	10	JOQK	Japan	Niigata(NHK1)
	50	HLKY	Korea, S,	Seoul(CBS/Gidoggyo)
	10		Malaysia	Kota Bahru
	2	2ZD	New Zealand	Masterton
	10	DYSR	Philippines	Dumaguete C.
	1	DZNC		Cawayan, Isa.

kHz	kW	Call	Country	Location (Name)
840	50		USSR	Spassk Dalniy, FE
843	50		Thailand	Sakon Nakhon
844	10	VSZ1	Gilbert Is.	Bairiki(R. Tarawa)
845			China, PR	Beijing
			Indonesia	Bandung(RRI)
	0.25	PM2DSA		Jakarta(Kebebasan Bc)
850	10	2CY	Australia	Canberra, ACT(ABC2)
	0.2	6CA		Carnarvon(ABC3)
			China, PR	Unk(C1)
				Fujian prov.(TS)
			Taiwan	Matsu tao(Kuang Hua)
	1	KHLO	Hawaii	Hilo
	10		Hong Kong	Commercial R.
	100		India	Ahmedabad A
			Indonesia	Bandung(R. Migantara)
	1	JOZU	Japan	Uwajima(NHK1)
	0.1-0.05			4 sts(NHK1)
			Korea, N.	Unk(R. Pyongyang(v)
	10	HLAU	Korea, S.	Ulsan(MBC)
	1	HLSY		Yanggu(KBS)
	10		Malaysia	Kuching, Sarawak
	1	DXDN	Philippines	Tagum, Dvo Nte
	5	DZGE		Canaman, Cam Sur
856	10	HSKD	Thailand	Bangkok
860	2	4GR	Australia	Toowoomba
	2	6AM		Northam
	2	7HO		Hobart
			China, PR	Lanzhou, Gs(PS)
				Guangdorg(PS1)
	1	BED25	Taiwan	Kaohsiung(BCC1)
	1	BED27		Hualien(BCC1)
	1	BEV34		Taipei(Min Pen)
	20		India	Sambalpur
	5	JOPR	Japan	Fukui(HBC)
	3	JOHE		Asahikawa(HBC)
	3	JOQF		Muroran(HBC)
	1	JOSO		Matsumoto(SBC)
	0.1	JOSN		Toyohashi(RTC)
			Korea, N.	Sinuiju
	10	HLKN	Korea, S.	Mogpo(KBS)
	10	1YZ	New Zealand	Rotorua
	150		Pakistan	Quetta II
	2		Papua, New Guinea	Madang
	50	DWRV	Philippines	Quezon C.
	1	DXRE		
	1	DYOG		Calbayog C.
	20		Sri Lanka	Amparai
	50		Thailand	Sakon Nakhon
861			China, PR	Shantou, Gd
865			China, PR	Nanchang, Jx(PS)
	10		Malaysia	Penang
870	5	2GB	Australia	Sydney
	2	6DB		Derby(ABC3)
	10		Bangladesh	Chittagong
			China, PR	Unk(C1)
				Tianjin(MS)
				Nanjing, Js(PS)
	1	BEV52	Taiwan	Taichung(Chung Sheng)
	5	KAIM	Hawaii	Honolulu
	50		India	Jullunder A
	0.5			Ujjain
	500	JOGB	Japan	Kumamoto(NHK2)
	20		Malaysia	Limbang, Sarawak
		DYBQ	Philippines	Bacolod C.
	10		Thailand	Bangkok
	100		Vietnam	Ho Chi Minh C.
871	1	DZBT	Philippines	Batangas C.
877			Korea, N.	Wonsan(v)
880	2	3YB	Australia	Warrnambool
	5	4BH		Brisbane
	2	6PR		Perth
	100		China, PR	Fuzhou, Fj(PS/TS)
	1	BEH4	Taiwan	Hsinchu(Fu Hsing)
	1	BEH47		Chungli(Fu Hsing)
	1	BEH98		Keelung(Fu Hsing)
	1			Hualien(Fu Hsing)
		BEV67		Penghu(Feng Ming)
	10		India	Panaji Goa A
	10			Silchar
	5			Gangtok

kHz	kW	Call	Country	Location (Name)
880	10	JOPK	Japan	Shizuoka(NHK1)
	50	HLKH	Korea, S.	Gwangju(KBS)
	10	1YC	New Zealand	Auckland
	1	DWKS	Philippines	San Pablo C.
	10	DXMS		Cotabato C.
	1	DZTC		Tarlac
	10	HSKR	Thailand	Tak
881	500		USSR	Naryn, Kir.
885			Indonesia	Jakarta(R. Ramaco)
	200		Malaysia	Kuala Lumpur
887			Korea, N.	Unk
890	50	5AN	Australia	Adelaide(ABC1)
			China, PR	Andong, Ln(MS)
				Fuzhou, Fj
	10	BED24	Taiwan	Tainan(VOFC)
	10		Fiji	Lautoka
	20	JOHK	Japan	Sendai(NHK1)
	100	HLKB	Korea, S.	Busan(KBS/FS)
	5	2XW	New Zealand	Wellington
	1	DXRT	Philippines	Tawi-Tawi, Sulu
	2.5	DZPA		Bangued, Abra
	5	DZRC		Legaspi C.
	20		Sri Lanka	Diyagama
	400			TWR(Proj)
	20		Thailand	Chonburi
			USSR	Tyumen, Sib.
895	10		Brunei	Berakas
900	2	2LM	Australia	Lismore
	2	6BY		Bridgetown
	2	7AD		Devonport
	2	8HA		Alice Springs
	50		China, PR	Kunming, Yn(PS)
	100	BED96	Taiwan	Tanhsui(CBS)
	20		India	Cuddapah
	5	JOHF	Japan	Yonago(BSS)
	5	JOZR		Kochi(RKC)
	5	JOHO		Hakodate(HBC)
	0.1			Masuda(BSS)
	50	HLKV	Korea, S.	Seoul(MBC)
	10		Macau	Em. do R. dif.
	10	4YC	New Zealand	Dunedin
	2		Papua, New Guinea	Goroka
	1	DXUM	Philippines	Davao C.
	5	DYRC		Cebu C.
	1		Thailand	Chiang Mai
910	10	4QB	Australia	Maryborough(ABC3)
	10	4QO		Eidsvold(ABC3)
			China, PR	Fujian prov.(TS)
	1			Jinzhou, Ln(MS)
	5			Yichun, Jx(MS)
	5	BEB38	Taiwan	Taichung(BCC)
	1	BEH3		Taipei(Fu Hsing)
	1	BEH35		Taichung(Fu Hsing)
	1	BEH56		Kaoshiung(Fu Hsing)
	1	BEH79		Hualien(Fu Hsing)
	1			Hsinchu(Fu Hsing)
	100		India	Gorakhpur
	10	JOCB	Japan	Nagoya(NHK2)
	1	HLCP	Korea, S.	Pohang(KBS)
	20		Malaysia	Sibu, Sarawak
	50	HSKS	Thailand	Surin
	10	HSKE		Bangkok
911	1	DYKW	Philippines	Binalbagan, Neg Occ
912			China, PR	Tonghua, Jl(v)
915			Korea, N.	Unk(KCBS)
918	120		Cambodia	Phnom Penh
920	2/1	2XL	Australia	Cooma
	2/1	4VL		Charleville
	2	6NA		Narrogin
			China, PR	Unk(FS)
				Kunmin, Yn(PS)
				Jinan, Sd(PS)
	2	BEV72	Taiwan	Chiayi(Cheng Sheng)
				Taitung+Tawu (Cheng Sheng)
	20		India	Suratgarh
	1			Amritsar
	50			Imphal
	0.2			Tuensang
	5	JOEF	Japan	Yamagata(YBC)

kHz	kW	Call	Country	Location (Name)
920	1			Nobeoka(MRT)
	0.1-0.05			3 sts(Comm.)
	10	HLKI	Korea, S.	Daejeon(KBS)
	1	HLKW		Geochang(KBS)
	0.25	KMTH	Midway I.	AFRTS/USN
	10	3YZ	New Zealand	Greymouth
	50	DZRP	Philippines	Manila
	25		Sri Lanka	Diyagama
923	10		Thailand	Bangkok(nom. 920)
930	5	8UZ	Australia	Melbourne
	2	4CD		Gladstone
	0.5	6NR		S. Bentley
	20		China, PR	Beijing(MS)
	10			Jilin(MS)
				Fujian prov.(FF)
		BEC42	Taiwan	Taipei(Chin Chung)
		BEH85		Keelung+Hualien (Fu Hsing)
	3		Fiji	Sigatoka
	10		India	Vizagapatam
	5	JOFG	Japan	Fukui(NHK1)
	5	JOKG		Kofu(NHK1)
	1	JOIQ		Wakkanai(NHK1)
	0.1			Shinkitami(NHK1)
			Korea, N.	Sariwon
	10	HLDB	Korea, S.	Buyeo(KBS)
	0.25	HLSU		Hadong(KBS)
	10		Malaysia	Tawau, Sabah(FP-927)
	2	1XW	New Zealand	Hamilton(R. Waikato)
	10		Pakistan	Multan II
	10	DXER	Philippines	Davao C.(CP)
	1.5		Thailand	Pattani
935	5	DXRO	Philippines	Cotabato C.
	1.5	HSHW	Thailand	Pattani
			USSR	Arkalyk, Kaz.
				Unk, FE
940	2	4AY	Australia	Ayr
	10	7ZR		Hobart(ABC1)
	100		China, PR	Hefei, Ah(PS/TS)
	10	KAHU	Hawaii	Waipahu, Oahu
	100		India	Tiruchirapalli A
	5	JOPF	Japan	Tokuyama(KRY)
	3	JOTR		Akita(ABS)
	1	HLKD	Korea, S.	Masan(KBS)
	50		Malaysia	Johore Bahru
	2	2ZA	New Zealand	Palmerston North
	15/5	DWAW	Philippines	Makati, Riz.
	5		Thailand	Bangkok(Udon Thani/ Phitsanulok/Chataburi
				Nakhon Sawan
				Maha Sarakham
	1.1			
945			Indonesia	Jakarta(R. Kejayaan)
				Padang(R. Erkatika)
948			China, PR	Haikou, Hainan Dao, Gd(MS)
949	5/1	DXRZ	Philippines	Zamboanga C.
950	5	2UE	Australia	Sydney
			China, PR	Anshan, Ln(MS)
				Fujian prov.(TS/FF)
				Hj prov.(PS)
	1	BEV85	Taiwan	Hsinying(Chien Kuo) (Hualien(Fu Hsing)
	1		India	Allahabad A
	100			Najibabad
	100	JOKR	Japan	Tokyo(TBS)
	10		Malaysia	Kuching, Sarawak
	0.1	1XB	New Zealand	Auckland(R. Bosom)
	10	HSQ	Thailand	Nakhon Ratchasima
955	50	XZK1	Burma	Rangoon
			Korea, N.	Unk(R. Pyongyang)
960	2	3BO	Australia	Bendigo
	2	4WK		Warwick
	2	6TZ		Bunbury
			China, PR	Yantai, Sd(MS)
				Yinchuan, Nx(PS)
				Kunming, Yn(PS)
	20	BED55	Taiwan	Taipei(BCC2)
	20		India	Jalgaon
	5	JOTG	Japan	Aomori(NHK1)
	5	JOZK		Matsuyama(NHK1)
	1	JOSP/	Japan	Saga/Yonago/

kHz	kW	Call	Country	Location (Name)
960		LQ/UQ		Hagi(NHK1)
	10	HLKS	Korea, S.	Jeju(KBS)
	10	HCLS		Andong(KBS)
	10		Malaysia	Kuala Trengganu
	10	3YC	New Zealand	Christchurch
	10	DZRM	Philippines	Manila
	10		Thailand	Bangkok
965	10		Indonesia	Jember(RRI)
970	2	2MW	Australia	Murwillumbah
	2	5DN		Dry Creek/Adelaide
	1		Brunei	Kuala Belait
			China, PR	Guangzhou/Canton, Gd(CS)
	1	BEV84	Taiwan	Tsaotun(Chung Hsing/ TBC)
	5	KPUA	Hawaii	Hilo(FP-670)
	100		India	Cuttack A
	0.1		Japan	Miyako, Ryukyu(NHK1)
	500	HLSR	Korea, S.	Gimje(KBS/FS)
	2	1ZN	New Zealand	Wrangarei
	5/1	DXMO	Philippines	Cagayan de Oro C.
	10		Thailand	Chiang Mai
973	50		USSR	Yuzhno-Sakhalinsk, FE
974	50		Indonesia	Surakarta(RRI)
975			China, PR	Harbin, Hj(MS)
	1		Sri Lanka	Welikada
979	5	DXYZ	Philippines	Zamboanga C.
980	2	3HA	Australia	Hamilton
	2	4RO		Rockhampton
	2	6KG		Kalgoorlie
			China, PR	Shenyang(C1)
	1	BEV68	Taiwan	Kaohsiung(Feng ming)
	3.5	BEC70		Taipei(Kung Chun)
	100		India	Raipur
	50	JOLB	Japan	Fukuoka(NHK2)
	20	2ZB	New Zealand	Wellington
	10/5	DWRT	Philippines	Makati, Riz.
	5/1	DXGE		Davao C.
	10	HSKG	Thailand	Bangkok
	5	HSKH		Mae Hong Son
	50	HSKZ		Yala
	10			N. Phanom
	150		USSR	Aktyubinsk, Kaz.
985	0.5		Indonesia	Jakarta(R. Eltivi/Elmona)
987			Korea, N.	Chongjin(also rep. 995)
990	2	2GZ	Australia	Orange
	0.5	8GO		Gove(ABC)
	20		China, PR	Shanghai(MS/TS)
	10			Luda, Ln(MS)
				Fuzhou, Fj(FS)
	50/10	KPOI	Hawaii	Honolulu(PO-1380)
	50		India	Jammu, Kashmir
	300		Indonesia	Jakarta(RRI)
				(nom. 999)
	10	JORK	Japan	Kochi(NHK1)
	10	HLAP	Korea, S.	Masan(MBC)
	20		Singapore	R. Singap(Malay)
	20		Sri Lanka	Jaffna
991	2.5	DXCP	Philippines	Gen. Santos C.
	5/1	DYRP		Iloilo C.
995			USSR	Hongchih Kwangpo (to China)
998	25		USSR	Birobidzhan, FE Tselinograd, Kaz.
1000	2	2NB	Australia	Broken Hill(ABC3)
	2	2ST		Nowra
	2	6PM		Perth
			China, PR	Zhengzhou, Hn(PS)
				Shantou, Gd(MS)
	500	BED62	Taiwan	Luchiang(CBS)
	100		India	Calcutta B
	0.5		Indonesia	Jakarta(R. Kutilang 162)
	1	JODG/RQ/ TQ/DP	Japan	Hamamatsu/Nakamura/ Hachinohe/Fukuyama (NHK1)
	0.1			3 sts(NHK1)
			Korea, N.	Hamhung
	10	HLCL	Korea, S.	Gwangju(CBS)
	10	1ZD	New Zealand	Tauranga
	5	DWXX	Philippines	Manila

kHz	kW	Call	Country	Location (Name)
1000	1	DXHP		Bislig, S. Sur.
	2.5		Thailand	Bangkok
1005	10		Malaysia	Malacca
1010	0.3	2XX	Australia	Canberra, ACT
	2	4CA		Cairns
	5	4IP		Ipswich
	2	6GE		Geraldton
	2	7EX		Launceston
			China, PR	Fujian prov.(FF)
	1	BEV60	Taiwan	Kaohsiung(Cheng Sheng)
				Hualien(Fu Hsing)
	1	BEV92		Taipei(Tien Nan)
	10		India	Coimbatore
			Indonesia	Medan(RRI)
	50	JONR	Japan	Osaka(ABC)
	2	1YK	New Zealand	Kaitaia
	120		Pakistan	Hyderabad I
	1	DXSN	Philippines	Surigao
	25	DXXX		Zamboanga C.
	1	DYRO		Roxas C.
	5	DZRD		Dagupan C.
	50		USSR	Magadan, FE
	100		Vietnam	Hanoi
1015			Indonesia	Jakarta(R. P2SC) (nom. 1025)
1020	5	2KY	Australia	Sydney
	0.1	6WH		Wyndham(ABC3)
	100		China, PR	Changchun, Jl(C1/FS)
	3.5	BED53	Taiwan	Hsinchu(BCC2)
	0.1	BED71		Kuanshan(BCC1)
	20		India	Delhi B
	1	JOFF	Japan	Naha, Okinawa(FEBC)
	10	HLAW	Korea, S.	Andong(MBC)
	1	DZWX	Philippines	Baguio C.
	20		Thailand	Bangkok
	10	A3Z	Tonga	Nuku'alofa
1021	1	DWCW	Philippines	Lucena C.
1025	200		USSR	Novosibirsk, Sib.
1030	5	3DB	Australia	Melbourne
	5	4MK		Mackay
	20		China, PR	Beijing(MS)
				Fujian prov.(TS)
				Yingkou, Ln(MS)
				Guiyang, Gh(PS)
	1	BEH33	Taiwan	Miaoli(Fu Hsing)
	1	BEV51		Sanchung(Chung Hua)
	10		India	Gauhati B
	0.1		Japan	22sts(NHK1)
	0.05-0.02			10 sts(NHK1)
	1	HLCG	Korea, S.	Hwacheon(KBS)
	120		Pakistan	Multan
	1	DYXT	Philippines	Tagbilaran C, Bohol
	5	VQO	Solomon Is.	Honaira
	50		Thailand	Phitsanulok
1035			Indonesia	Medan(R. Bonsita)
	10	HSLB	Thailand	Yala
1036	5	DZDR	Philippines	Naga C.(nom. 1040)
1040	1	2UH	Australia	Muswellbrook(ABC3)
	0.5	2BE		Bega(PO-1480)
	0.5	4WP		Weipa(ABC3)
	2	5PI		Crystal Brook
	300		China, PR	Shanghai(C1/FS)
	1	BED26	Taiwan	Chiayi(BCC2)
	5	KMVH	Hawaii	Honolulu
	20		India	Bombay A
	1		Korea, S.	Chunchon(AFKN)
	10		Malaysia	Penang
	10	4ZB	New Zealand	Dunedin
	1	DXML	Philippines	Digos, Dvo Sur.
	1	DYMS		Calbalogan, W. Samar
	10		Thailand	Khon Kaen
1041	5	DWDW	Philippines	Dagupan C.
1045	1		Indonesia	Jakarta(Pembangunan)
	20		Malaysia	Simanggang, Sarawak(Proj)
1047	5	DXLL	Philippines	Zamboanga C.
1049	5	DZVR	Philippines	Laoag C.(nom. 1060)
1050	5	2CA	Australia	Canberra, ACT
	10		Bangladesh	Rangpur
			China, PR	Yanbian/Yanji, Jl(MS)
				Fuzhou, Fj
	10			Dongchuan, Yn(MS)

kHz	kW	Call	Country	Location (Name)
1050	20	BEC49	Taiwan	Linkou(Kuang Hua)
	5	BEV74		Pingtung(Min Li)
	1			Wuhaoshan(Yen Sheng)
	10		Hong Kong	Commercial R.(Engl.)
	10		India	Leh, Kashmir
	1			Bangalore B
	5	JOAR	Japan	Nagoya(CBC)
	1	WSZE	Mariana Is.	Navy Hill, Saipan
	2	1YE	New Zealand	Kaikohe
	1	DYSA	Philippines	Iloilo C.
	5/1	DZEC		Quezon C.
	3	2AP	Samoa, W.	Apia
	10		Thailand	N. Sawan
1055			China, PR	Jiangxi prov.(PS)
	10		Malaysia	Mersing
1060	2	3CV	Australia	Maryborough
	2	4SB		Kingaroy
	100		China, PR	Guangzhou, Gd(PS2)
	1	BED43	Taiwan	Taichung(BCC2)
	1	BEV82		Ilan(Cheng Sheng)
	10		India	Rampur
	1			Pondicherry
	1			Pasighat
	0.2			Along
	0.1-0.04		Japan	26 sts(Comm.)
	10	HLKQ	Korea, S.	Cheongju(KBS)
	20		Malaysia	Sibu, Sarawak
	2	2ZG	New Zealand	Gisborne
	1	DXKD	Philippines	Dipolog C, Z. Nte
	5/1	DXKI		Koronadal, S. Cotab.
	1	DXKS		Surigao C.
	1	DYMC		Masbate
1070	2/1	2RG	Australia	Griffith
	2	6WB		Katanning
	50		China, PR	Tianjin(PS)
				Fuzhou, Fj
	10			Qiqihar, Hj(MS)
	1	BED8	Taiwan	Lishan(BCC1)
	10	BED57		Taipei(BCC1)
	1	BEV96		Tainan(Tien Sheng)
	1000		India	Rajkot
			Indonesia	Padang(R. SMSB)
	20	JOFK	Japan	Hiroshima(NHK1)
	5		Malaysia	Capital City
				(Ibu Kota)
	10			Grik
	10	1ZB	New Zealand	Auckland
	1	DXKT	Philippines	Davao C.
	1	DXMV		Cotabato C.
	10		Thailand	N. Si Thammarat
	100		USSR	Ust-Kamenogorsk, Kaz.
1079	500		USSR	Kyzyl, Sib.(FS)
1080	2	2MO	Australia	Gunnedah
	0.2	4MI		Mount Isa
	2	6IX		Perth
	2	7HT		Hobart
	10		Bangladesh	Rajshahi
			China, PR	Xilinhot, Nm(PS)
				Fuzhou, Fj
	5	KIOE	Hawaii	Honolulu
	20		India	Udipi
	5			Bombay/Damao
	1	JOLC/ HD/IC/ IT/OC	Japan	Tottori/Takamatsu/ Toyama/Muroran/ Obihiro(NHK2)
	0.1			4 sts(NHK2)
			Korea, N.	Kaesong or Haeju
	10	HLAT	Korea, S.	Yeosu(MBC)
	10		Malaysia	Sandakan, Sabah
	10	DWAD	Philippines	Mandaluyong, Riz.
	20		Thailand	Bangkok
1085			Indonesia	Jakarta(R. Univ. Trisakti)
1089	5	DXCM	Philippines	Cotabato C.
1090	2	3LK	Australia	Horsham
	100		China, PR	Shenyang, Ln(PS)
				Fujian prov.(TS)
	5	BEH5	Taiwan	Taipei(Fu Hsing)
	1	BEH34		Taichung(Fu Hsing)
	1	BEH50		Chiayi(Fu Hsing)
	1	BEH55		Kaohsiung(Fu Hsing)

kHz	kW	Call	Country	Location (Name)
1090	1	BEH67		Pingtung(Fu Hsing)
	1	BEH69		Taitung(Fu Hsing)
	1	BEH80		Hualien(Fu Hsing)
	0.5	BEC31		Yunlin(Chun Chung)
	0.1	BED56		Jiyuetan(BCC3)
	5		Fiji	Suwa(Proj)
	0.2		Guam	Andersen AB(AFRTS)
	1		India	Kozhikode/Calicut B
	100			Shillong
	10	JOHB	Japan	Sendai(NHK2)
	1	HLCH	Korea, S.	Chungju(KBS)
	10		Pakistan	Lahore II(rep. 1080-85v)
	1	DYTR	Philippines	Tagbilaran C.
	10		Thailand	Nakhon Sawan
	10			Yala
1097	150		USSR	Alma Ata, Kaz.
1100	2	4LG	Australia	Longreach
	2	6MD		Merredin
	2	7LA		Launceston
	10		Brunei	Berakas
	100	BED97	Taiwan	Tanhsui(CBS)
	10		India	Rohtak
			Indonesia	Medan(R. Erlangga)
	1	JOEL	Japan	Tsuruoka(YBC)
	1	JOGF		Oita(OBS)
	1	JOMF		Sasebo(NBC)
	1	JOSR		Nagano(SBC)
	1	JONF		Miyazaki(MRT)
	1	JOWO		Koriyama(RFC)
	0.1-0.02			2 sts(Comm.)
	10	WSZO	Marshall Is.	Majuro
	10	3ZB	New Zealand	Christchurch
	10		Pakistan	Hyderabad
	20	HSEI	Thailand	Bangkok
	20			Chiang Mai
1101	1	DXUL	Philippines	Davao S.
1105			China, PR	Xiamen/Amoy, Fj(MS)
1110	5	2UW	Australia	Sydney
			China, PR	Kunming, Ln(PS)
	1.5	BEC23	Taiwan	Taipei(Chun Chung)
	5	BEC30		Ilan(Chun Chung)
	1	BEC47		Kinmen tao(Kuang Hua)
	20		India	Gulbarga
	5	JOMR	Japan	Kanazawa(MRO)
	5	JOCF		Kagoshima(MBC)
	1	JOBW		Hikone(KBS)
	0.1	JOKL		Kannonji(RNC)
	10	HLAV	Korea, S.	Pohang(MBC)
	1	DYHR	Philippines	Calbayog C, W. Samar
	10		Thailand	Songkhla
1111	3	DZLF	Philippines	Batac, IN
1115	1	DYRM	Philippines	Dumaguete C.(nom. 1120)
1120	5	3EA	Australia	Melbourne
	5	4BC		Brisbane
			China, PR	Unk(C2)
				Harbin, Hj(FS/R)
	1	BED72	Taiwan	Yuli(BCC1)
	5	BEP25		Kaohsiung(Ching Cha)
	1	BEP26		Hsinchu(Ching Cha)
	40		India	Srinagar A, Kashmir
	5	JOAF	Japan	Matsuyama(RNB)
	5	JODR		Niigata(BSN)
	0.1	JOHM		Hamada(BSS)
	1	HLCI	Korea, S.	Samchoeg(KBS)
	2	4YQ	New Zealand	Queenstown
	1	DZXT	Philippines	Tarlac, Tar.
	10	WVUV	Samoa, Am.	Leone(R. Samoa)
	10		Thailand	N. Phanom
	50		USSR	Yerofey Pavlovich, Sib.
1125				Unk, FE
			China, PR	Nanchang, Jx(PS)
			Korea, N.	Unk(KCBS)
1130	2	2AD	Australia	Armidale
	2	3CS		Colac
	2	6CI		Collie
			China, PR	Siping, Jl(MS)
				Yinchuan, Nx(PS)
	5	BEC75	Taiwan	Taipei(Min Fang)
	2	BEV36		Yunlin(Cheng Sheng)
	10	KLEI	Hawaii	Kailua

kHz	kW	Call	Country	Location (Name)
1130	1000		India	Calcutta
	0.3		Indonesia	Medan(RRI)
	100	JOQR	Japan	Tokyo(Bunka Hoso)
	10	DZHP	Philippines	Manila
	50	HSKI	Thailand	Chanthaburi
1133	25		USSR	Dzhezkazgan, Kaz.
1135			Korea, N.	Haeju(v)
1140	2	2HD	Australia	Newcastle
	2		Bangladesh	Sylhet
	10		China, PR	Dongsheng, Nm(PS)
	1		India	Trivandrum B
	20			Ratnagiri
	20	JOBR	Japan	Kyoto(KBS)
	10	HLCX	Korea, S.	Jeonju(MBC)
	10		Malaysia	Kuantan
	2	1YW	New Zealand	Hamilton
	1000	DWVA	Philippines	Poro Pt(VOA)
	10	HSKL	Thailand	Lampang
1142	150		USSR	Dushanbé, FE
1145	0.5		Indonesia	Jakarta(R. Sonora)
			Korea, N.	Chongjin
1149			China, PR	Fuzhou, Fj
1150	2	2WG	Australia	Wagga Wagga
	1	BED68	Taiwan	Puli(BCC2)
	3	BEG22		Taipei(Yu Shih)
	1		India	Madras B
	1			Rajahmundri
	10	JOPC	Japan	Kushiro(NHK2)
	10	JORB		Kochi(NHK2)
	0.5			Miyakojima(RBC)
	0.25		Korea, S.	Gwangju(AFKN)
	10	HLWC		Weonju(KBS)
	5			Seoul(KAR)
	1	2YX	New Zealand	Nelson
	10		Pakistan	Rawalpindi I
	1	DYRD	Philippines	Tagbilaran C.
	5	DZEL		Lucena
	20	HSQK	Thailand	Bangkok
	30		USSR	Komsomolsk, FE
1151	25		USSR	Khanty-Mansiysk, Sib.
1159			Indonesia	Jakarta(R. Amigos)
				(nom. 1165)
1160	2	4MB	Australia	Maryborough
	2	5PA		Naracoorte(ABC3)
	1	7FG		Fingal(ABC3)
			China, PR	Unk(C1)
	1	BED86	Taiwan	Ilan(BCC2)
	5	BED89		Miaoli(BCC2)
	1	BEV67		Kaohsiung(Feng Ming)
	1		India	Dharwar B
	10			Darbhanga
	0.1-0.02		Japan	30 sts(NHK1)
	20	HLKU	Korea, S.	Busan(MBC)
	0.25			Uijongbu(AFKN)
	10		Malaysia	Malacca
	2	3ZC	New Zealand	Timaru
	10	DWWA	Philippines	Quezon C.
	1	DXDS		Digos, Dvo Sur.
	1000		USSR	Dushanbé, Tad(FS)
1161	20		Thailand	Bangkok(v)
1165	0.5		Indonesia	Surabaya(R. Rajawali)
	20		Malaysia	Simanggang, Sarawak(Proj)
1169	250		USSR	Ulan Ude, Sib.(FS)
1170	5	2CH	Australia	Sydney
	5		Bangladesh	Dacca B
	1	BED88	Taiwan	Taitung(BCC2)
	1	BEV35		Taipei(Cheng Sheng)
	5	KOHO	Haiwaii	Honolulu
	10		Hong Kong	Commercial R.(E)
	10		India	Udaipur
	1			Baroda
	10	JOUK	Japan	Akita(NHK1)
	50	HLCS	Korea, S.	Sogcho(KBS)
	10		Pakistan	D.I. Khan
	5	DZWN	Philippines	Dagupan C.
	10		Thailand	Chanthaburi
1178			China, PR	Hefei, Ah(PS)
	1000		Japan	Naha(VOA)
	30		USSR	Petropavlovsk, Kaz.
1180	5	8KZ	Australia	Melbourne
		BEV54	Taiwan	Erhlin(Kuo Sheng)

kHz	kW	Call	Country	Location (Name)
1180	20		India	Jabalpur
	2	2YW	New Zealand	Gisborne
	5	DYRF	Philippines	Cebu C.
	10		Thailand	Bangkok
1185			China, PR	Zhejiang prov.(PS)
	5		Indonesia	Tanjung Pinang(RRI)
1187	25		USSR	Ft. Shevchenko, Kaz.
1190	2	2NZ	Australia	Inverell
	2	6XM		Exmouth(ABC3)
	300		China, PR	Kunming, Yn(P/FS)
	1	BED32	Taiwan	Hualien(BCC2)
	1	BED46		Jiyuetan(BCC2)
	1	BEV46		Taipei(TBC)
	1	BEV57		Tainan(Sheng li)
	20		India	Bombay C.
	10	JOKP	Japan	KitamiNHK1)
	50	HLKX	Korea, S.	Inchon(Team R)
	10	DWBL	Philippines	Manila
	10		Thiland	Sakon Nakhon
1195			Indonesia	Denpasar(R. Menara)
1196	1	DXRS	Philippines	Surigao C.(nom. 1200)
1200	2	4CG	Australia	Southport
	2	5KA		Adelaide
			China, PR	Fujian prov.(TS)
				Haikou/Hainan, Gd(MS)
	100	BED50	Taiwan	Minhsiung(CBS)
	10		India	Tinnevelly
	1			Srinagar, Kashmir
	1			Shillong/Bhopal B
	5	JOBF	Japan	Kumamoto(RKK)
	1	JOMO		Nanao(MRO)
	1	JOSW		Iida(SBC)
	1	JOYF		Mito(IBS)
	1	JOFO	Kokua(RKB)	
	0.1-0.05			2 sts(Comm.)
	5		Korea, S.	Dongducheon(AFKN)
	0.25		Macau	Em. R. dif.
	10		Malaysia	Kudat, Sabah(FP-1197)
	2	2ZW	New Zealand	Wanganui
	5/1	DXFE	Philippines	Davao C.
	10	WVUV	Samoa, Am.	Leone(R. Samoa)
	10	HSAF	hailand	Bangkok
	5			Chiang Mai
1205			Indonesia	Denpasar(R. Menara)
1206	1		Indonesia	Surabaya(RRI)
	5/1	DYRH	Philippines	Bacolod C.
1210	5	2CC	Australia	Canberra, ACT
	2	2GF		Grafton
	2	6KY		Perth
	300		China, PR	Kunming, Yn(FS)
	100			Yanbian/Yanji, Jl
				(MS/FS)
	1	BEV62	Taiwan	Hsinchu(TBC)
		BEH—		Renai Nantou(Fu Hsing)
	2.5		Fiji	Sigatoka
	1	KZOO	Hawaii	Honolulu
			India	Kashmir(rep.)
			Indonesia	Bandung(R. Kontinental)
	50	JOOR	Japan	Osaka(MBS)
	0.25	HLSW	Korea, S.	Jeongseon(KBS)
			Laos	Seno, Savannakhet
	20		Malaysia	Miri, Sarawak
	2	4XO	New Zealand	Dunedin(R. Otago)
	5	DZMQ	Philippines	Dagupn C.
	10	HSKV	Thailand	Surat Thani
	2	HSKM		Chiang Mai
1211	1	DXCB	Philippines	Butuan C.
1213			China, PR	Zhejiang prov.(PS)
1220	2	3ZZ	Australia	Melbourne(ABC)
			China, PR	Chengdu, Sc(PS)
	10	BED79	Taiwan	Kaohsiung(BCC3)
	0.1	BED98		Fengping(BCC1)
	1	BEV71		Taipei(Hua Sheng)
	1		India	Chandigarh
	1			Hyderabad C
	1			Jodhpur B
	2.5			Calcutta
	10	JOJK	Japan	Kanazawa(NHK1)
	10	HLAA	Korea, S.	Qwangju(Jeonil)
	50		Malaysia	Johore Bahru
	1	WXLG	Marshall Is.	Kwajalein(AFRS)

kHz	kW	Call	Country	Location (Name)
1220	2	1ZE	New Zealand	Kaikohe
	1	DXSM	Philippines	Jolo, Sulu
	5/1	DXSY		Ozamis C.
	1	DYRV		Catbalogan C.
	1	DZMD		Daet, Cam Nte
	10		Thailand	Phrae
1223			USSR	Unk, Kaz.
1225	0.3		Indonesia	Jakarta(Ikatan Kel. Univ.)
				Bandung(R. Garuda Angkasa)
1230	10	2NC	Australia	Newcastle(ABC1)
	100		China, PR	Changsa, Hu(PS)
	1.5	BEV58	Taiwan	Taichung(Cheng Sheng)
	1		India	Ranchi B+2 sts
	0.5			Patiala
	5	JOGR	Japan	Aomori(RAB)
	5	JOUR		Nagasaki(NBC)
	0.1		New Zealand	Univ. sts
	1	DXCB	Philippines	Butuan C.
	5	DZSA		Manila
	10		Thailand	Sri Saket
	10			Udon Thani
1240	2	3TR	Australia	Sale
	2	4AK		Toowomba/Oakey
	2	5AU		Port Augusta(PO-1450)
	2	8DN		Darwin
	20		Brunei	Tutong
			Taiwan	Ilan÷Nanfang
				(Cheng Sheng)
	20		India	Varanasi
	100	JOLF	Japan	Tokyo(Nippon Hoso)
	5		Korea, S.	Shalwong(KAR)
	1	HLCD		Jecheon(KBS)
	2	1XX	New Zealand	Whakatane(Comm.)
	5/1	DYUL	Philippines	Cebu C.
	5	DZLT		Lucena C.
	1	DZXO		Cabanatuan c.
	10		Thailand	Roi Et
			Vietnam	Hanoi(FS)
1250	2	2DU	Australia	Dubbo
	100		China, PR	Xining, Qh(PS)
	10	BEC22	Taiwan	Linkou)Kuang Hua)
	5	BEC29		Kaohsiung(Chun Chung)
	1	BED61		Lshan(BCC2)
	2		vHong Kong	BBS
	20		India	Sangli
	5	JOTF	Japan	Naha(KHR)
	10	HLKT	Korea, S.	Daegu(CBS)
	2	1ZM	New Zealand	Auckland
	2		Papua,	
			N. Guinea	Port Moresb
	1	DYVS	Philippines	Bacolod C.
	5	DZXQ		Malabon, Riz.
	1000		USSR	Vladivostok, FE(FS)
1251	1	DZMS	Philippines	Sorsogon, Sor.
1256	50	HSKO	Thailand	Chiang Rai
1260	2	3SR	Australia	Shepparton
	1		China, PR	Qingdao, Sd(MS)
				Shenyang Ln(PS)
	10	BEP22	Taiwan	Taipei(Ching Cha)
	20		India	Ambikapur
	1			Mercara
	0.5		Indonesia	Jakarta(R. Pelita K)
	20	JOIR	Japan	Sendai(TBC)
	10		Malaysia	Ipoh
	300		Pakistan	Peshawar
	1	DWMC	Philippines	Rosals, Pang.
1265	0.25		Indonesia	Jakarta(R. Monalisa)
1268	10		Thailand	Bangkok(nom. 1260)
1270	5	2SM	Australia	Sydney
	1	BEV37	Taiwan	Taitung(Cheng Sheng)
	1	BEV59		Taichung+Tungshih
				(Cheng Sheng)
	5	KNDI	Hawaii	Honolulu
	10		India	Agartala
	1			Jaipur B
	50	JOFR	Japan	Fukuoka(RKB)
	5		Korea, S.	Kanghua(KAR)
	1	HLKL		Namweon(KBS)
	20		Thailand	Songkhla
	10			N. Si Thammarat
	10			U. Ratchathani

kHz	kW	Call	Country	Location (Name)
1273	1	DZVX	Philippines	Daet, Cam Nte
1275	5		China, PR	Xiamen, Fj(MS)
1280	100		Afghanistan	Kabul
	5	3AW	Australia	Melbourne
	100		China, PR	Shijiazhuang, He(PS)
	1	BEC40	Taiwan	Taipei(Fuh Sing Kang)
	1	BED47		Tainan(BCC1)
	1		India	Jamshedpur
	5	JOHW	Japan	Obihiro(HBC)
	5	JOJR		Tokushima(Shikoku)
	10		Malaysia	Malacca(rep. 1275)
	2.	2ZC	New Zealand	Napier
	25/10	DWKW	Philippines	Quezon C.
	5	DYRI		Iloil C.
	25	Thailand	Bangkok	
1285			Korea, N.	Hyesan(KCBS)
	0.5		Indonesia	Jakarta(R. Antar Nusa)
1287	50		Indonesia	Palembang(RRI)
1290	2	2TM	Australia	Tamworth
	100		China, PR	Yinchuan, Nx(PS)
	5	BEC27	Taiwan	Taichung(Chun Chung)
				Fangliao(Min Li)
	50	JOHR	Japan	Sapporo(HBC)
	10	HLAF	Korea, S.	Gangneung(MBC)
	1	HLAX		Cheongju(MBC)
	2	3XA	New Zealand	Christchurch(R. Avon)
	1	DXKO	Philippines	Cagayan de Oro C.
	1	DZYQ		Batangas C.
	10		Thailand	N. Si Thammarat
	10			Chiang Rai
1295			China, PR	Hefei, Ah(PS)
			Indonesia	Padang(R.S. Dembosco)
	1000		USSR	Dushanbé, Tad(FS)
1300	5	4BK	Australia	Brisbane
	2	5SE		Mt. Gambier
			China, PR	Unk(C1)
	300			Kunming, Yn(FS)
	10			Benxi, Ln(MS)
	20			Shanghai(ES)
	1	BEV23	Taiwan	Taipei(Min Pen)
		BEV82		Ilan+Toucheng
				(Cheng Sheng)
	5	WSZC	E.Caroline Is.	Moek, Truk
	20		India	Parbhani
	0.25		Indonesia	Bandung(R. Monalisa)
	10	JOTK	Japan	Matsue(NHK1)
	1	HLSI	Korea, S.	Gurye(KBS)
	10	HLSB		Weonju(MBC)
	2	DWAR	Philippines	Cabanatuan C.
	1	DXSO		Marawi C.
	0.25			Subic Bay, Zamb(AFPN)
	0.25			John Hay AS, Beng
				(AFPN)
	0.025			Wallace, Poro(AFPN)
	10		Thailand	Bangkok
1304	50		USSR	Tselinograd, Kaz.
1310	5	2GO	Australia	Gosford
	2	5AD		Adelaide
			China, PR	Unk(C1/FS)
	10			Jinan, Sd(MS)
	5			Chongqin, Sc(MS)
	1	BEV34	Taiwan	Taichung(Fu Hsing)
				Hualien(Fu Hsing)
	1	BEV76		Chunan(Tien Sheng)
	5	KNUI	Hawaii	Kahului, Maui
	10		India	Bhuj
	50	JOUF	Japan	Osaka(OBC)
	10	HLCM	Korea, S.	Iri(CBC)
	2	1ZH	New Zealand	Hamilton
	10		Sri Lanka	Galle
	20		Thailand	Khon Kaen
1312			China, PR	Peking(FS/R)
1313			USSR	Unk, FE
1315			Indonesia	Padang(R. SBS)
1319	1	DWSI	Philippines	Santiago, Isa.
1320	2	3BA	Australia	Ballarat
			China, PR	Unk(FS)
	1			Paicheng, Jl(MS)
	1	BEV45	Taiwan	Taipei(TBC)
				Puli(Chung Hsing/TBC)
	2.5		Fiji	Rakiraki

kHz	kW	Call	Country	Location (Name)
1320	20		India	Calcutta C
	1	JOJP	Japan	Tsuruoka(NHK1)
	1	JOLG		Tottori(NHK1)
	0.1-0.05			2 sts(NHK1)
	10	HLAK	Korea, S.	Jinju(MBC)
	1			Seoul(KAR)
	0.25	HLCU		Ulreung(KBS)
	0.1		Nauru I.	Nauru Bc Sce
	1	DYRX	Philippines	Roxas C.
	5		Thailand	Chonburi/Songkhla/
				N. Pathom
	10			Chiang Mai
1328	1	DWAY	Philippines	San Pablo C.
1327	5	DXCR	Philippines	Valencia, Buk.
1330	2	8SH	Australia	Swan Hill
	2	4BU		Bundaberg
			China, PR	Unk(C1)
				Changchun, Jl(MS)
				Fuzhou, Fj(MS)
	10			
	1	BEC36	Taiwan	Tsaoying(Chun Chung)
	20		India	Bikaner
	1			Tezu
	50	JOSF	Japan	Nagoya(Tokai R)
	10	HLAO	Korea, S.	Chungju
	1	DZKI	Philippines	Iriga C.
	10		Thailand	Bangkok
1334	10		Indonesia	Jakarta(RRI)
1335			China, PR	Shandong prov.(PS)
				Fuzhou, Fj
1340	2	2LF	Australia	Young
			China, PR	Unk(C1/FS)
	1		India	Jammu, Kashmir
	0.1-0.05		Japan	28 sts(NHK1)
	2	2ZN	New Zealand	Nelson
	10		Pakistan	Larkana
	1	DYFJ	Philippines	San José, Ant.
	50		Thailand	U. Ratchathani
	10			Loei
	30		USSR	Alma Ata, Kaz.
1345	50		Bangladesh	Khulna(nom. 1340)
			Korea, N.	Kanggye
1348			China, PR	Fujian prov.(TS)
1350	5	2—	Australia	Sydney(Proj)
	2	3GL		Geelong(FP 5kW)
			China, PR	Lianyungang, Js(MS)
				Hangzou, Zj(PS)
	1	BEC33	Taiwan	Hualien(Chun Chung)
				Ilan(Chun Chung)
	1	BED63		Chiayi(BCC1)
	5	KIVM	Hawaii	Lihue, Kauai
	1		India	Cuttack B
	20			Jabalpur
	1			Jullunder C
	20	JOER	Japan	Hiroshima(RCC)
	1	HLAQ	Korea, S.	Samcheog(MBC)
	1	KJQR	Mariana Is.	Saipan
	2	1ZC	New Zealand	Rotorua
	5	DXRP	Philippines	Davao C.
	1	DZYR		S. Fernando, LU
	10		Thailand	Trang
	10			Lampang
	10			Surin
	10			Phang-Nga prov.
1352	2/1	DZYS	Philippines	Santiago, Isa.
1355	10		Thailand	Bangkok
1360	2	2NX	Australia	Newcastle
			Cambodia	Phnom Penh
	10	BED23	Taiwan	Taichung(BCC3)
	1	BEV50		Sanchung(Chung Hua)
	10		India	Dharwar A
	10	JOAD	Japan	Naha(NHK2)
	0.1-0.05			27 sts(NHK2)
	1		Korea, S.	Osan(AFKN)
	5	DYRL	Philippines	Bacolod C.
	1	DZRA		Virac, Catanduanes
	10	DZEM		Quezon C.
	10		Thailand	Bangkok
1364			Vietnam, N.	Viet Bac reg.
1367	500		USSR	Novosibirsk, Sib.(FS)
1370	0.2	2LT	Australia	Lithgow(FP-1390)
	2	4LM		Mt. Isa(FP-1390)

kHz	kW	Call	Country	Location (Name)
1370	10		India	Delhi C
	5	JOUC	Japan	Yamaguchi(NHK2)
	1	JONB/		Nagano/Takayama/
		CZ/AZ		Nayoro(NHK2)
	0.5	JORC		Hirosaki(NHK2)
	0.1			2 sts(NHK2)
	0.25	HLKO	Korea, S.	Muju(KBS)
	2	2ZP	New Zealand	New Plymouth
	1	DXKP	Philippines	Pagadian C.
	2.5	DYVR		Roxas C.
	1	DZBS		Baguio C.
	20		Singapore	R. Singapore
	50	HSKN	Thailand	Nan
	1			Chumphon
	1	HSKW		Surat Thani
1376	30		USSR	Vladivostok, FE
1380	2	2GN	Australia	Goulbourn
	5	3MP		Mornington Penins.
	2	4MK		Mackay
	2	8AL		Alice Springs(PO-1530)
			China, PR	Kunming, Yn(PS)
	10			Qingdao, Sd(MS)
	0.1	BED41	Taiwan	Chienkung(BCC1)
	1	BEV70		Taipei(Hua Sheng)
	5	KPOI	Hawaii	Honolulu
	10		India	Hyderabad B
	1			Kurnool
			Indonesia	Bandung(RRI)
	5	JOHP	Japan	Takamatsu(NHK1)
	0.1			4 sts(NHK1)
	1	HLSV	Korea, S.	Uljin(KBS)
	10	DWEE	Philippines	Manila
	10		Thailand	Phitsanulok
1385			Indonesia	Surabaya(RRI)
				Jakarta(R. Nanggala)
	0.25	WXLE	Phoenix Is.	Canton I.(AFRTS)
1390	2	2LT	Australia	Lithgow(PO-1370)
	2	4LM		Mt. Isa(PO-1370)
	2	5AA		Adelaide(CP)
	1	BED74	Taiwan	Yuli(BCC2)
	1	BED87		Hsinchu(BCC1)
	1	BEV36		Yunlin+Peikong
				(Cheng Sheng)
	10		India	Gwalior/Imphal
	10	JOQC/	Japan	Morioka/Kanazawa/
		JB/HC		Kagoshima(NHK2)
	10	HLAM	Korea, S.	Mogpo(MBC)
	0.1	1ZT	New Zealand	Turangi
	1	DWAS	Philippines	Legaspi C.
	1	DWMG		Solano, Nva. Vizc.
	5	DYKB		Bacolod C.
	10		Thailand	Chiang Rai
1393			China, PR	Fuzhou, Fj
1400	2	2PK	Australia	Parkes
	10		China, PR	Andong, Ln(MS)
	1	BED65	Taiwan	Ilan(BCC1)
	5	BEV78		Keelung(Yi Shi)
	1	BEV98		Kaohsiung(Cheng Kung)
	0.05	VKW	Cocos I.	Keeling(R. Cocos)
	1		India	Ahmedabad B
	10			Mysore
			Indonesia	Bukkittinggi(SMN)
				(nom. 1395)
	5	JOVR	Japan	Shizuoka(SBS)
	0.5	JOVO		Repeater(SBS)
	5	JOQL		Kushiro(HBC)
	10	HLKP	Korea, S.	Busan(CBS)
	2	3AM	New Zealand	Christchurch
	10		Thailand	Yaso Thou
1403	5		USSR	Naryn, Kir.
1410	2	2KO	Australia	Newcastle
			China, PR	Jiangxi prov.(PS)
	1	BED54	Taiwan	Miaoli(BCC1)
	1	BED67		Puli(BCC1)
	1	BED80		Taitung(BCC3)
			Indonesia	Bandung(R. Kontesa)
	50	JOIF	Japan	Fukuoka(KBC)
	2	2YM	New Zealand	Palmerston No.
	1	DYMR	Philippines	Mandawe C.
	5	DXHU		Davao C.
	1	DZUP		Quezon C.

kHz	kW	Call	Country	Location (Name)
1410	10		Thailand	Bangkok
1415			Indonesia	Surabaya(R. Merkuri)
1418	1	DWRB	Philippines	Lipa C.
1420	5	3XY	Australia	Melbourne
	20		China, PR	Shanghai(ES)
			Taiwan	Taoyuan(Chien Kuo)
	0.5	VLU2	Christmas I.	Phosphate Hill
	5	KCCN	Hawaii	Honolulu
	1		India	Allahabad B
	1			
	1			Rajkot B
	30	JORF	Japan	Yokohama(R. Kanto)
	1	YJB1	New Hebrides	R. Vil
	2	1ZO	New Zealand	Tokoroa
	1	DYRS	Philippines	San Carlos C.
	1	DZQR		Olongapo C.
	10	2AP	Samoa, W.	Apia
	10		Thailand	Phitsanulok
1421	1	DZDL	Philippines	Dagupan C.
1425	0.5		Indonesia	Jakarta(R. KBB)
1430	2	2WL	Australia	Woollongong
			China, PR	Fujian prov.(TS)
	10	BEC73	Taiwan	Chingshui(Kung Chun)
				Machu(Kung Hua)
	1		India	Aurangabad
	3	JOVF	Japan	Wakayama(WBC)
	1	JOGO		Hachinohe(RAB)
	1	JOZF		Gifu(GBS)
	0.1			2 sts(Comm.)
	10		Pakistan	Rawalpindi II
	10		Thailand	Songkhla
	50		USSR	Osh, Kir.
	50			Przhevalsk, Kir.
1431	1	DXAS	Philippines	Jolo, Sulu
1435			China, PR	Hailar, Hj(MS)
1437			China, PR	Jilin prov.(PS)
1440	2	2CN	Australia	Canberra, ACT(ABC1)
	10		China, PR	Chifeng, Ln(PS)
	1			Nandong, Js(MS)
	10	BEC60	Taiwan	Taipei(Kung Chun)
	10		India	Bhopal A
	1			Kanpur/Mangalore
	1			Port Blair(Andamanes)
	50	JOWF	Japan	Sapporo(STV)
	1		Korea, S.	Gunsan(AFKN)
	0.25			Weonju(AFKN)
	0.05			Masan(AFKN)
	2	1ZK	New Zealand	Kaitaia
	1	DYOO	Philippines	Iloilo C.
	5/1	DZOM		Calapan, M. Ortal
	10		Thailand	Bangkok
1445	0.25		Indonesia	Jakarta(R. Elbama)
	0.4		Malaysia	Butterworth(RAAF)
			Sri Lanka	Unk(Engl.)
1450	2	2MG	Australia	Mudgee
	2	5AU		Pt. Augusta(FP-1240)
			China, PR	Yantai, Sd(MS)
				Beijing(MS)
	3.5	BED48	Taiwan	Kaohsiung(BCC2)
	0.1	BED94		Kuangfu(BCC1)
	10	WSZD	E. Caroline Is.	Ponape
	0.5		India	Warangal
	5	JOKF	Japan	Takamatsu(RNC)
	5	JOQM		Abashiri(HBC)
	10	HLCO		Cheolweon(KBS)
	10		Pakistan	Karachi II
	1	DYLV	Philippines	Mandawe C.
	5		Thailand	Lopburi
	10			Narathiwat
1455	0.5		Indonesia	Jakarta(R. Univ. T.)
1460	2/1	2NM	Australia	Muswellbrook
	2/1	5MU		Murray Bridge
	100		China, PR	Huhhot, Nm(PS/FS)
	1	BED82	Taiwan	Chiayi(BCC3)
	1	BED85		Taipei(BCC3)
	20		India	Jeypore
	1	JOYL	Japan	Tsuchiura(IBS)
	1	JOWR	Japan	Fukushima(RFC)
	0.1			4 sts(Comm.)
	1	HLSH	Korea, S.	Hamyang(KBS)
	2	3YW	New Zealand	Westport

kHz	kW	Call	Country	Location (Name)
1460	10		Thailand	Phuket
1465			China, PR	Jingdezhen, Jx(MS)
	0.25		Indonesia	Jakarta(R. Elshinta)
1466	30		USSR	Frunze, Kir.
	15			Osh, Kir.
1470	2	3MA	Australia	Mildura
			China, PR	Ningbo, Zj(MS)
				Beihai(Fishery St)
	1	BED29	Taiwan	Jiyuetan(BCC1)
	1	BED81		Hualien(BCC3)
				Keelung(Fu-Hsing)
		BEC47		Kinmen(Kuang Hua)
	2		Fiji	Rakiraki
	20		India	Bhagalpur
	1	JOCC/DD	Japan	Asahikawa/Fukuyama/
		ID/KC/		Oita/Kofu/Miyazaki/
		MC/VB		Hakodate(NHK2)
	0.5	JOIY		Wakkanai(NHK2)
	0.1			4 sts(NHK2)
	250	DWRF	Philippines	Iba, Zamb(FEBC)
	20		Thailand	Bangkok
	20			Khon Kaen
1475			China, PR	Fuzhou, Fj
	0.25		Diego Garcia	AFRTS
	600		Malaysia	Kota Kinabalu, Sabah
	150		USSR	Vladivostok, FE(FS)
1480	2/1	2BE	Australia	Bega(FP-1040, 5kW)
	2	4ZR		Roma
	1	WSZA	E. Caroline Is.	Yap
	20		China, PR	Beijing(ES)
	10			Huangshi, Hb(MS)
	10	BEC74	Taiwan	Taichung(Kung Chun)
	1		India	Jaipur A
	1			Tiruchi B
	1	JOMX	Japan	Nobeoka(NHK2)
	1	JOHV		Nase(NHK2)
	0.5-0.1			3 sts(NHK2)
	5	1XA	New Zealand	Auckland(R. Hauraki)
	100		Thailand	Chiang Mai
1481	1	DYKR	Philippines	Kalibo, Ak
1485			China, PR	Hefei, Ah(PS)
				Fuzhou, Fj(PS)
				Nanchang, Jx(PS)
1488	1	DZYA	Philippines	Angeles C.
1490	2	2AY	Australia	Albury
	1		China, PR	Jilin shi, Jl(MS)
				Changzhi, Sx(MS)
	3	BEC39	Taiwan	Penghu(Chun Chung)
	3.5	BEE32		Taipei(Chiao Yu)
	0.5		India	Mysore
	1			Srinagar C, Kashmir
	1	JOTL	Japan	Nayoro(HBC)
	5	JOYR		Okayama(RSK)
	0.1/0.05			3 sts(Comm.)
	0.01		Lord Howl Is.	R. L.H.I.
	10		Thailand	Surat Thani
	10			Sri Saket
	0.05	KEAD	Wake Island	AFRTS
1495			China, PR	Fujian prov.(PS)
1500	2	2BS	Australia	Bathurst
	5	3AK		Melbourne
	10		China, PR	Jining, Nm(MS)
	1	BED83	Taiwan	Mobile(BCC1)
	0.1	BED64		Lishang(BCC1)
	1	BEV64		Hualien(Yen Sheng)
	1	WSZB	W. Caroline Is.	Koror, Palau I.
	5	KUMU	Hawaii	Honolulu
	10		India	Vijayawada B
	1			Patna B
	0.1-0.05		Japan	12 sts(Comm.)
	1	HLSK	Korea, S.	Gimcheon(KBS)
	2	1ZA	New Zealand	Taupo
	5/1	DYWB	Philippines	Bacolod C.
	25		Thailand	Bangkok
1502	5		USSR	Dushanbé, Tad.
1507	10		Maldives	Malé
1510	10	2NA	Australia	Newcastle(ABC2)
	50		China, PR	Hailar, Hj(MS)
	50			Fujian prov.(TS)
	10	BEP27	Taiwan	Taipei(Ching Cha)
		BEH26		Hsinchu(Fu Hsing)

kHz	kW	Call	Country	Location (Name)
1510		BEH32		Miaoli(Fu Hsing)
		BEH36		Taichung(Fu Hsing)
		BEH51		Chiyai(Fu Hsing)
		BEH66		Pingtung(Fu Hsing)
		BEH70		Taitung(Fu Hsing)
		BEH—		Tainan(Fu Hsing)
	0.5		India	Amravati
	5	JOZB	Japan	Matsuyama(NHK2)
	1	JOCD/JD/ SC/TZ		Koriyama/Tsuruoka/ Matumoto/Hachinohe (NHK2)
	0.5-0.05			5 sts(NHK2)
	0.25		Korea, S.	Bohang/Chinhae/ Gwangcheon(AFKN)
	10		Pakistan	Khaipur
	1	DXOC	Philippines	Ozamiz C.
	1	DZEQ		Baguio C.
	1			Clark AFB, Pamp (AFPN)
	0.25			S. Antonio, Zamb (AFPN)
	10		Thailand	Chiang Rai
1511	100		USSR	Aktyubinsk, Kaz.
1515			Indonesia	Denpasar(R. Yudha)
1519			China, PR	Fuzhou, Fj
1520	2	2QN	Australia	Deniliquin
	1	JODC/ TC/FC JC/LU	Japan	Hamamatsu/Aomori/ Fukui/Yamagata/ Yonago(NHK2)
	1			Ishigaki(NHK2)
	0.5-0.05			6 sts(NHK2)
	1	1ZU	New Zealand	Taumarunui
	2			Papua, New Guinea Wewak
	10		Thailand	Bangkok
1525			China, PR	Urumqi, Xj(FS/R)
			USSR	Khabarovsk, FE
				Several unk
1530	2	2VM	Australia	Moree
	0.2	5LN		Pt. Lincoln(ABC3)
	0.2	8AL		Alice Springs(ABC) (FP/1380)
	50		China, PR	Jixi, Hj(MS)
	1		India	Tawang/Mathura
	0.5			Trichur
	1	JODO	Japan	Joetsu(BSN)
	1	JOAM		Uwajima(RNB)
	1	JOXF		Utsunomiya(CRT)
	0.1			2 sts(Comm.)
	1	DZYM	Philippines	San José, M. Ortal
	10		Thailand	Uttradit
	5		USSR	Taldy Kurgan, Kaz.
1540	10	2JJ	Australia	Sydney(Rock R)
	200		China, PR	Dehua, Fj(FF)
	1	BED78	Taiwan	Tainan(BCC3) Hualien(Fu Hsing)
	5	KISA	Hawaii	Honolulu
	10		India	Panaji Goa B
	1			Jammu, Kashmir
			Indonesia	Ujung Pandang(RRI)
	0.1-0.05		Japan	22 sts(NHK2)
	0.25	HLKZ	Korea, S.	Suncheon(KBS)
	2	2ZE	New Zealand	Blenheim
	10		Pakistan	Bhawalpur
	5	DZME	Philippines	Quezon C.
	10		Thailand	Udon Thani
1545	0.5		Indonesia	Jakarta(R. Trijaya S.)
1550	50	4QD	Australia	Emerald(ABC3)
	10		Taiwan	Taipei(AFNT)
	0.05		Guam	Finegayan(AFRTS)
	2.5		India	Madras, C
	1			Kanpur
	0.5			Gaya
	0.1	3ZO	New Zealand	Twizel
	20		Thailand	Pretchaburi
1555	10	DYLA	Philippines	Cebu C.(alt. fq 1550)
1560	2	2RE	Australia	Taree
	10		China, PR	Chifeng, Ln(PS)
			Taiwan	Chiayi(Cheng Sheng)
	1		Indonesia	Dili, Timor
	0.1-0.02		Japan	24sts(Comm.)
	1	2ZH	New Zealand	Hawera
	1		Thailand	Bangkok
1565			Indonesia	Jakarta(R. Komersial)
1568			China, PR	Changsha, Hu(MS)
1570	0.05	2CP	Australia	Cooma(ABC3)
	0.2	2LG		Lithgow(ABC3)
	0.1	2WA		Wilcannia(ABC3)
	0.2	3WL		Warrnambool(ABC3)
	0.2	4GM		Gympie(ABC3)
	0.05	4HU		Hughenden(ABC3)
	0.05	5LC		Leigh Creek(ABC3)
	0.1	7SH		St. Helens(ABC3) (CP)
	10		Taiwan	Taichung/CCK(AFNT)
	0.5		Fiji	Suva(Proj)
	20/10		India	Delhi D
			Indonesia	Jakarta(R. Cendrawasih) (nom. 1525)
	0.25		Japan	Sasebo(FEN)
	250	HLDA	Korea, S.	Jeju I.(FEBC)
	0.05	VL2NI	Norfolk I.	Kingston
	5/1	DYRG	Philippines	Bacolod C.
	10	DZHH		Nichols PAFB, Riz.
	10		USSR	Semipalatinsk, Kaz.
				Khabarovsk, FE
	5			Yuzhno-Sakhalinsk, FE
1575	10		China, PR	Wenzhou, Zj(MS)
1580	2	2WN	Australia	Woollongong(ABC3)
	0.2	5MG		Mt. Gambier(ABC3)
	0.05	5WM		Woomera(ABC3)
	1/0.25		Japan	Iwakuni/Misawa(FEN)
	1000		Thailand	Ban Pachi(VOA)
1586	5		USSR	Dushanbé, Tad.
	5			Khabarovsk, FE
1590	0.2	4SO	Australia	Southport(ABC3)
	2	5MV		Renmark/Berri(ABC3)
			China, PR	Yangchuan, Sx(MS)
	1		India	Indore B
	10	JOQB	Japan	Niigata(NHK)
	10	JOTB		Matsue(NHK)
	1/5	1XI	New Zealand	Auckland(R.I.)
1600	2	3NE	Australia	Wangaratta
			China, PR	Hongtsehsian, Js(MS)
	1	BED77	Taiwan	Taichung(BCC2)
			Indonesia	Denpasar(YBS), a.o.
	5	JOKB	Japan	Okayama(NHK2)
	1	JOGV/AC SB/ZY/—		Hitoyoshi/Nagasaki/ Kitakyushu/Uwajima/ Enbetsu(NHK2)
	0.5	JOUZ		Hagi(NHK2)
	0.1-0.05			11 sts(NHK2)
	1		Thailand	Buriram/Ranong
1750	0.3	VL2UV	Australia	Kensington(Univ.)

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NORTH AMERICA (excl Mexico)

Explanation of listing:-

FIRST COLUMN – Call letters and location are required identification for US and Canadian sts. Symbols in front of the call letters are as follows: *Construction Permit for new station, not yet on air. †Construction permit for move to this frequency from a different frequency.

SECOND COLUMN – In addition to the official Post Office abbreviations for US states, and Canadian provinces, certain geographical, city and town names have been abbreviated. These include: Bch.–Beach; Cy.–City; E.–East; Ft.–Fort; Hts.–Heights; Mt.–Mount; Mtn.–Mountain; No.–North; Pk.–Park; So.–South; Spgs.–Springs; St.–Saint; Ty.–Territory; and W.–West.

THIRD COLUMN – A daytime station listed with two powers uses the second one during critical hours (cf. D and U6 below).

FOURTH COLUMN – Contains authorized operating hours and directional antenna information. The symbols mean as follows: **D** is daytime operation (between local sunrise and local sunset), **D1** without directional antenna, **D3** with directional antenna, **D4** with directional antenna during critical hours only, **D5** with directional antenna except during critical hours, **D6** with directional antenna, different patterns during critical and non-critical hours. (Under a new ruling of the FCC certain daytime sts can operate between 0600 local time and sunrise when it is later than 0600 with reduced power); **L** is limited time, and means a st. West of the dominant st. can operate from as early as sunrise at the dominant sts location; **A** st. east of the dominant st. can operate as late as the dominant sts sunset. Number indicates directional pattern as under "U" below. **SH** equals "Specified Hours" and usually means a st. that would normally operate unlimited time files a schedule of reduced hours with the FCC because of economic reasons. **ST** means "Shares Time". This usually finds a college, university, or church st. on the air two or three hours a day, during which time the commercial st. signs off. **U** means the st. is authorized to operate any time up to 24 hours a day. **U1** means without directional antenna; **U2** means with directional antenna at night; **U3** means directional antenna, same pattern, day and night; **U4** means directional antenna, different pattern day and night; **U5** means directional antenna daytime, non-directional at night; **U6** means directional antenna at night and during critical hours (until two hours after sunrise and from two hours before sunset).

SCOPE – Because of the vast number of stations in operation in North America it has been found necessary to limit the scope of this list. Omitted from the list are all stations below 100W and all USA daytime stations below 10kW, further all USA stations on the local channels (1230, 1240, 1340, 1400, 1450, 1490kHz), which stations generally operate with 1/0.25kW. For each frequency the number of omitted low power (**lp**) stations is mentioned. Full details of these stations may be obtained from specialized listings (eg. NRC Domestic log, Van Jones log).

ADDRESSES: If the address of a station is not given elsewhere in this book, city and state or province will usually do.

Call	Location	Hrs	kW
540kHz			
WGTO	Cypress Gardens, FL	D3	50/0.25
WDAK	Columbus, GA	U2	5/0.5
KNOE	Monroe, LA	U4	5/1
CBT	Grand Falls, NF	U1	10
CBEF	Windsor, ON	U3	2.5/5
CBK	Watrous, SA	U1	50
+1p: Can 7/USA 10			
550kHz			
KENI	Anchorage, AK	U1	5
KOY	Phoenix, AZ	U1	5/1
KAFY	Bakersfield, CA	U2	1
KRAI	Craig, CO	U2	5/0.5
WGGA	Gainesville, GA	U2	5/0.5
WCBI	Columbus, MS	U4	1/0.5
KSD	St. Louis, MO	U2	5
KBOW	Butte, MT	U2	5/1
WGR	Buffalo, NY	U2	5
KFYR	Bismarck, ND	U2	5
WKRC	Cincinnati, OH	U4	5/1
KOAC	Corvallis, OR	U4	5
WHLM	Bloomsburg, PA	U4	1
WGNG	Pawtucket, RI	U2	1/0.5
KCRS	Midland, TX	U4	5/1
KTSA	San Antonio, TX	U2	5
WDEV	Waterbury, VT	U4	5/1
WSVA	Harrisonburg, VA	U2	5/1
KARI	Blaine, WA	U4	5/1
WSAU	Wausau, WI	U4	5
CKPG	Prince George, BC	U2	10
CFNB	Fredericton, NB	U4	50
CHLN	Trois-Rivières, QU	U4	10/5
CHNO	Sudbury, ON	U4	10/2.5
+1p: USA 3			
560kHz			
KVOK	Kodiak, AK	U1	1
KBLU	Yuma, AZ	U2	1
KSFO	San Francisco, CA	U1	5/1
KLZ	Denver, CO	U3	5
WQAM	Miami Beach, FL	U1	5/1
WIND	Chicago, IL	U4	5
WGAN	Portland, ME	U3	5
WHYN	Springfield, MA	U3	5/1
WEBC	Duluth, MN	U4	5
KWTO	Springfield, MO	U2	5
KMON	Great Falls, MT	U2	5
WGAI	Elizabeth Cy, NC	U4	1/0.5
WFIL	Philadelphia, PA	U4	5
WIS	Columbia, SC	U2	5
WHBQ	Memphis, TN	U4	5/1
KLVI	Beaumont, TX	U2	5
KPQ	Wenatchee, WA	U2	5
WJLS	Beckley, WV	U2	5/0.5
CKNL	Ft. St. John, BC	U2	1
CHTK	Prince Rupert, BC	U1	1/0.25
*	St. Anthony, NF	U1	1/0.25
CHCM	Marystown, NF	U4	10
CJKL	Kirkland Lake, ON	U2	5
CFOS	Owen Sound, ON	U4	1
CKCN	Sept-Iles, QU	U4	10/5
+1p: Can 2/USA 5			
570kHz			
WAAX	Gadsden, AL	U2	5/0.5
AFRS	Galena, AK	U1	0.25
KLAC	Los Angeles, CA	U2	5
WACL	Waycross, GA	U2	5/1
WKYX	Paducah, KY	U4	1/0.5
WGMS	Washington, DC	U4	5/1
WVMI	Biloxi, MS	U2	1
WMCA	New York, NY	U3	5
WSYR	Syracuse, NY	U4	5
WWNC	Asheville, NC	U2	5
WKBN	Youngstown, OH	U2	5
WNAX	Yankton, SD	U2	5
WFAA	Dallas, TX	U4	5
KLUB	Salt Lake City, UT	U3	5
KVI	Seattle, WA	U1	5
WMAM	Marinette, WI	U1	0.25/0.1
CKEK	Cranbrook, BC	U3	10/1
CKCQ	Quesnel, BC	U4	1
CKWX	Williams Lake, BC	U4	1
CJEM	Edmundston, NB	U3	5/1
CFCB	Corner Brook, NF	U1	1
CHYM	Kitchener, ON	U4	5/10
CKSW	Swift Current, SA	U4	10
CFWH	Whitehorse, YT	U1	1
	Godthaab, Greenland	U1	25
+1p: Can 3/USA 5			
580kHz			
KYUK	Bethel, AK	U1	5
KIKX	Tucson, AZ	U2	5/0.5
KMJ	Fresno, CA	U1	5
KUBC	Montrose, CO	U2	5/1
WDBO	Orlando, FL	U2	5
WGAC	Augusta, GA	U2	5/1
KFXD	Nampa, ID	U2	5
KSAC	Manhattan, KS	ST1	5/0.5
WIBW	Topeka, KS	ST2	5
KALB	Alexandria, LA	U2	5/1
WTAG	Worcester, MA	U4	5
WELO	Tupelo, MS	U4	1/0.5
KCMX	Ashland, OR	U4	1
WHP	Harrisburg, PA	U2	5
WCHS	Charleston, WV	U2	5
WKTY	La Crosse, WI	U4	5/1
CKUA	Edmonton, AB	U4	10
CKXR	Salmon Arm, BC	U2	10/1
CKY	Winnipeg, MB	U4	50
CJFX	Antigonish, NS	U3	10
CKAP	Kapuskasing, ON	U2	10/1
CFRA	Ottawa, ON	U4	50/10
CKPR	Thunder Bay, ON	U1	5/1
CKWW	Windsor, ON	U3	0.5
CHLC	Hauterive, QU	U2	5/2.5
+1p: Can 1/USA 9			

Call	Location	Hrs	kW
590kHz			
KHAR	Anchorage, AK	U1	5
KFXM	San Bernardino, CA	U4	1
KTHO	So. Lake Tahoe, CA	U2	1/0.5
KCSJ	Pueblo, CO	U4	1
WDLP	Panama City, FL	U2	1
WPLO	Atlanta, GA	U2	5
KID	Idaho Falls, ID	U2	5/1
WRTH	Wood River, IL	U4	0.5/1
WVLK	Lexington, KY	U4	5/1
WEEI	Boston, MA	U3	5
WJMS	Ironwood, MI	U2	5/1
WKZO	Kalamazoo, MI	U2	5
WOW	Omaha, NE	U1	5
WROW	Albany, NY	U4	5/1
WGTM	Wilson, NC	U4	5
KUGN	Eugene, OR	U2	5/1
WARM	Scranton, PA	U4	5
WMBS	Uniontown, PA	U2	1
KLBJ	Austin, TX	U2	5/1
KSUB	Cedar City, UT	U2	1
WLVA	Lynchburg, VA	U4	1
KHQ	Spokane, WA	U1	5
CFNL	Fort Nelson, BC	U1	0.25
CFTK	Terrace, BC	U3	1
CFAR	Flin Flon, MB	U5	10/1
CJCW	Sussex, NB	U4	0.5/0.25
VOCM	St. John's, NF	U2	10
CKEY	Toronto, ON	U4	10
CKRS	Jonquière, QU	U3	10/5
+1p: USA 5			
600kHz			
KRKM	North Pole, AK	U3	1
KCLS	Flagstaff, AZ	U2	5/0.5
KVCV	Redding, CA	U3	1
KOGO	San Diego, CA	U3	5
WICC	Bridgeport, CT	U4	1/0.5
WMBR	Jacksonville, FL	U2	5
WMT	Cedar Rapids, IA	U2	5
WCAO	Baltimore, MD	U3	5
WTAC	Flint, MI	U3	1/0.5
KGEZ	Kalispell, MT	U4	1
WSJS	Winston-Salem, NC	U4	5
KSJB	Jamestown, ND	U3	5
WREC	Memphis, TN	U4	5
KROD	El Paso, TX	U3	5
KTBB	Tyler, TX	U2	1
CJOR	Vancouver, BC	U3	10
CBNA	St. Anthony, NF	U4	10
CFCT	Tuktoyaktuk, NWT	U1	1
CKCL	Truro, NS	U3	1
CFCH	North Bay, ON	U4	10/5
CFCF	Montreal, QU	U3	5
CFQC	Saskatoon, SA	U2	5
+1p: Can 4/USA 11			
610kHz			
WSGN	Birmingham, AL	U2	5/1
KAVL	Lancaster, CA	U4	1/0.5
KFRC	San Francisco, CA	U1	5
WSNG	Torrington, CT	U4	1/0.5
WIOD	Miami, FL	U4	5
KDAL	Duluth, MN	U2	5
WDAF	Kansas City, MO	U1	5
KOJM	Havre, MT	U4	1
WGIR	Manchester, NH	U4	5/1
KRKE	Albuquerque, NM	U2	5
WAYS	Charlotte, NC	U4	5/1
WTVN	Columbus, OH	U2	5
WIP	Philadelphia, PA	U3	5
KILT	Houston, TX	U4	5
KVNU	Logan, UT	U2	5/1
WSLC	Roanoke, VA	U4	5/1
WHPL	Winchester, VA	U4	0.5
KONA	Pasco, WA	U4	5
CKYL	Peace River, AB	U2	10
CHNL	Kamloops, BC	U2	10/5
CJAT	Trail, BC	U5	10/1
CHTM	Thompson, MB	U1	1
CJOX	Grand Bank, NF	U4	10
CKTB	St. Catharines, ON	U3	10/5
CKML	Mont-Laurier, QU	U2	1
CHNC	New Carlisle, QU	U3	10/5
CKRW	Whitehorse, YT	U1	1
+1p: Can 3/USA 4			
620kHz			
KTAR	Phoenix, AZ	U2	5
KNGS	Hanford, CA	U2	1
WSUN	St. Petersburg, FL	U2	5
KWAL	Wallace, ID	U2	1
KMNS	Sioux City, IA	U4	1
WLBZ	Bangor, ME	U2	5
WJDX	Jackson, MS	U2	5/1
WVNJ	Newark, NJ	U4	5
WHEN	Syracuse, NY	U2	5/1
WDNC	Durham, NC	U4	5/1
KGW	Portland, OR	U2	5
WHJB	Greensburg, PA	U4	5/0.5
WETE	Knoxville, TN	U4	5
KWFT	Wichita Falls, TX	U2	5
WVMT	Burlington, VT	U4	5
WWNR	Beckley, WV	U2	1/0.5
WTMJ	Milwaukee, WI	U2	5
CJCI	Prince George, BC	U2	10
CKCM	Grand Falls, NF	U3	10
CFCL	Timmins, ON	U4	10/5
CKCK	Regina, SA	U2	5
+1p: USA 5			
630kHz			
KJNO	Juneau, AK	U1	1/0.5
KIDD	Monterey, CA	U4	1
KHOW	Denver, CO	U2	5
WMAL	Washington, DC	U4	5
WSAV	Savannah, GA	U2	5
KIDO	Boise, ID	U4	5
WLAP	Lexington, KY	U3	5/1
KDWB	St. Paul, MN	U3	5/0.5
KXOK	St. Louis, MO	U4	5
KOH	Reno, NV	U2	5/1
WMFD	Wilmington, NC	U4	1
WPRO	Providence, RI	U2	5
KMAC	San Antonio, TX	U4	5
CHED	Edmonton, AB	U4	10
CKOV	Kelowna, BC	U1	5/1
CKRC	Winnipeg, MB	U4	10
CFCO	Chatham, ON	U4	10/1
CKAR	Huntsville, ON	U2	1
CJET	Smiths Falls, ON	U4	10
CFCY	Charlottetown, PEI	U4	10
CJLA	Lachute, QU	U4	0.5/1
CHLT	Sherbrooke, QU	U4	50/15
+1p: Can 5/USA 13			
640kHz			
KFI	Los Angeles, CA	U1	50
WHLO	Akron, OH	L3	1
CBN	St. John's, NF	U1	10
+1p: Can 2/USA 2			
650kHz			
KYAK	Anchorage, AK	U4	50/25
WSM	Nashville, TN	U1	50
	Godhavn, Greenland	U1	5
+1p: USA 1			
660kHz			
KFAR	Fairbanks, AK	U1	10
WNBC	New York, NY	U1	50
WESC	Greenville, SC	SH3	10/5
KSKY	Dallas, TX	D1	10
+1p: USA 1			
670kHz			
KDLG	Dillingham, AK	U1	5/1
KBOI	Boise, ID	U2	50/25
WMAQ	Chicago, IL	U1	50
CJNW	Musgravetown, NF	U4	10
680kHz			
*	Barrow, AK	U1	10/5
KNBR	San Francisco, CA	U1	50
WRNG	No. Atlanta, GA	D1	25
WCTT	Corbin, KY	U2	1
WCBM	Owings Mills, MD	U4	10/5
WRKO	Boston, MA	U4	50
WDBC	Escanaba, MI	U4	10/1
KFEQ	St. Joseph, MO	U4	5
KWKA	Clovis, NM	U2	0.5
WINR	Binghamton, NY	U4	1/0.5
WRGC	Sylva, NC	U2	1/0.25
WPTF	Raleigh, NC	U2	50
WMPS	Memphis, TN	U2	10/5
KKYX	San Antonio, TX	U2	50/10
WCAW	Charleston, WV	U4	50/0.25
CHFA	Edmonton, AB	U3	10
CJOB	Winnipeg, MB	U2	10/2.5
CJCN	Grand Falls, NF	U4	10
†CFDR	Dartmouth, NS	U4	50/10
CKGB	Timmins, ON	U4	10
CFTR	Toronto, ON	U4	25
+1p: Can 1/USA 4			
690kHz			
WVOK	Birmingham, AL	D1	50
KEOS	Flagstaff, AZ	U4	1/0.5
WAPE	Jacksonville, FL	U2	50/10
KGGF	Coffeyville, KS	U4	10/5
WTIX	New Orleans, LA	U4	10/5
KHEY	El Paso, TX	U4	10
KPET	Lamesa, TX	U1	0.25
WZAP	Bristol, VA	D1	10
CBU	Vancouver, BC	U3	50
CBF	Montreal, ON	U1	50
†CFRG	Gravelbourg, SA	U2	5
+1p: Can 6/USA 15			
700kHz			
KBYR	Anchorage, AK	U1	1/0.5
WLW	Cincinnati, OH	U1	50
	Simiutaq, Greenland	U1	20
710kHz			
WKRG	Mobile, AL	U2	1/0.5
KMPC	Los Angeles, CA	U2	50/10
KERE	Denver, CO	U3	5
WGBS	Miami, FL	U4	50
KEEL	Shreveport, LA	U4	50/5
WHB	Kansas City, MO	U4	10/5
WOR	New York, NY	U3	50
KGNC	Amarillo, TX	U4	10
KURV	Edinburg, TX	U2	0.25
KIRO	Seattle, WA	U2	50
WDSM	Superior, WI	U2	5
CKVO	Clarenville, NF	U3	10
CHYR	Leamington, ON	D3	10
CJRN	Niagara Falls, ON	U4	5/2.5
CIPC	Port Cartier, QU	U3	1
CKVM	Ville-Marie, QU	U4	10/1
CFRG	Gravelbourg, SA	D1	5
+1p: Can 4/USA 9			
720kHz			
KOTZ	Kotzebue, AK	U1	5
WGN	Chicago, IL	U1	50
KDWN	Las Vegas, NV	U2	50/10
730kHz			
CKLG	Vancouver, BC	U4	50
CKDM	Dauphin, MB	U2	10/5
CKGA	Gander, NF	U3	1
CJNR	Blind River, ON	U2	1
CHYR-7	Leamington, ON	N2	0.5
CKAC	Montreal, QU	U3	50
+1p: Can 4/USA 30			
740kHz			
WBAM	Montgomery, AL	D3	50
KBRT	Los Angeles, CA	D3	10
KCBS	San Francisco, CA	U4	50
KSSS	Colorado Spgs, CO	U4	1/0.5
KVFC	Cortez, CO	U2	1/0.25
WKIS	Orlando, FL	U2	5/1
KBAD	Carlsbad, NM	SH1	1/0.25
WPAQ	Mt. Airy, NC	D1	10/1
KRMG	Tulsa, OK	U4	50/25

Call	Location	Hrs	kW
KTRH	Houston, TX	U4	50
KCMC	Texarkana, TX	U3	1
CBX	Edmonton, AB	U4	50
CBNM	Marystown, NF	U2	10
CBL	Toronto, ON	U1	50
+1p: Can 16/USA 16			

750kHz

KFQD	Anchorage, AK	U1	50/10
WSB	Atlanta, GA	U1	50
KMMJ	Grand Island, NE	L3	10
WHEB	Portsmouth, NH	L1	1
KXL	Portland, OR	L3	50
+1p: USA 3			

760kHz

KFMB	San Diego, CA	U2	5
WJR	Detroit, MI	U1	50
+1p: USA 1			

770kHz

KOB	Albuquerque, NM	U2	50
WABC	New York, NY	U1	50
KXA	Seattle, WA	L1	1
+1p: USA 3			

780kHz

KNOM	Nome, AK	U1	10/5
WBBM	Chicago, IL	U1	50
WJAG	Norfolk, NE	L1	1
KCRL	Reno, NV	U2	50
+1p: USA 4			

790kHz

KCAM	Glennallen, AK	U1	5
KCEE	Tucson, AZ	U3	5/0.5
KOSY	Texarkana, AR	U2	1/0.5
KABC	Los Angeles, CA	U2	5
WLBE	Leesburg, FL	U2	5/1
WFUN	Miami, FL	U4	5
WQXI	Atlanta, GA	U2	5/1
WAKY	Louisville, KY	U4	5/1
WSGW	Saginaw, MI	U4	5/1
KGHL	Billings, MT	U2	5
WWNY	Watertown, NY	U2	1
KFGO	Fargo, ND	U2	5
KWIL	Albany, OR	U4	1
WAEB	Allentown, PA	U4	1
WEAN	Providence, RI	U4	5
WMC	Memphis, TN	U2	5
KULF	Houston, TX	U4	5
KFYO	Lubbock, TX	U4	5/1
WTAR	Norfolk, VA	U2	5
KGMI	Bellingham, WA	U2	5/1
KJRB	Spokane, WA	U2	5
WEAQ	Eau Claire, WI	U2	5
CFCW	Camrose, AB	U4	50
CFAN	Newcastle, NB	U3	1
CFNW	Port au Choix, NF	U3	1
CFDR	Dartmouth, NS	U3	5
CHIC	Brampton, ON	U4	5
CKSO	Sudbury, ON	U4	10/5
+1p: Can 1/USA 17			

800kHz

KINY	Juneau, AK	U1	5
CJJC	Langley, BC	U4	10
CKOK	Penticton, BC	U1	10/0.5
VOWR	St. John's, NF	SH1	1
CJBQ	Belleville, ON	U4	10
CFOB	Fort Frances, ON	U1	1/0.5
CBQ	Thunder Bay, ON	U3	10/5
CKLW	Windsor, ON	U4	50
CJAD	Montreal, QU	U4	50/10
CHRC	Quebec, QU	U3	50
CHAB	Moose Jaw, SA	U4	10
+1p: USA 31			

810kHz

KGO	San Francisco, CA	U3	50
WSJC	Magee, MS	U2	50/0.5
KCMO	Kansas City, MO	U2	50/10
WGY	Schenectady, NY	U1	50
CHQR	Calgary, AB	U4	50
CKJS	Winnipeg, MB	U3	10
CJVA	Caraquet, NB	U2	10
+1p: USA 17			

820kHz

WAIT	Chicago, IL	L1	5
WOSU	Columbus, OH	L1	5
WBAP	Fort Worth, TX	U1	50
+1p: USA 1			

830kHz

WCCO	Minneapolis, MN	U1	50
WNYC	New York, NY	L3	1
+1p: USA 1			

840kHz

WHAS	Louisville, KY	U1	50
+1p: USA 3			

850kHz

WYDE	Birmingham, AL	U4	50/1
KICY	Nome, AK	U1	5
KGOE	Thousand Oaks, CA	U4	0.5
KOA	Denver, CO	U1	50
WRUF	Gainesville, FL	U2	5
WEAT	West Palm Beach, FL	U3	1
WPTB	Statesboro, GA	U2	1
WHDH	Boston, MA	U4	50
WKBZ	Muskegon, MI	U3	1
WWJC	Duluth, MN	D1	10
†WMAG	Forest, MS	D3	10
KFUO	Clayton, MO	L1	5
WKIX	Raleigh, NC	U2	10/5
WJW	Cleveland, OH	U4	10/5
WJAC	Johnston, PA	U3	10
WEEU	Reading, PA	U2	1
WIVK	Knoxville, TN	D3	50
KEYH	Houston, TX	D3	10
WRAP	Norfolk, VA	U4	5/1
KTAC	Tacoma, WA	U4	10/1
CKRD	Red Deer, AB	U2	10/1
CFVR	Abbotsford, BC	U4	10
CKVL	Verdun, QU	U4	50/10
†CFNS	Saskatoon, SA	U4	10
+1p: USA 5			

860kHz

KTRB	Modesto, CA	U4	10/1
WDMG	Douglas, GA	U2	5
KOAM	Pittsburg, KS	U2	10/5
WTEL	Philadelphia, PA	D3	10
KONO	San Antonio, TX	U2	5/1
WOAY	Oak Hill, WV	D1	10/5
CFPR	Prince Rupert, BC	U3	10
CHAK	Inuvik, NWT	U1	1
CBH	Halifax, NS	U2	10
CJBC	Toronto, ON	U1	50
+1p: Can 30/USA 29			

870kHz

WWL	New Orleans, LA	U3	50
WKAR	East Lansing, MI	D3	10
WHCU	Ithaca, NY	L1	5/1
+1p: USA 4			

880kHz

KRVN	Lexington, NE	U4	50
WCBS	New York, NY	U1	50
+1p: Can 2/USA 2			

890kHz

AFRS	Adak, AK	U1	0.25
WLS	Chicago, IL	U1	50
+1p: USA 2			

900kHz

KFRB	Fairbanks, AK	U1	10
CJVI	Victoria, BC	U3	10
CKDH	Amherst, NS	U4	1
CKDR	Dryden, ON	U1	1/0.25
CHML	Hamilton, ON	U3	5
CFBR	Sudbury, ON	U4	10/1
CJBR	Rimouski, QU	U2	10
CJEN	St-Jerome, QU	U3	1
CKTS	Sherbrooke, QU	U4	10
CKVD	Val d'Or, QU	U3	10/2.5
CKBI	Prince Albert, SA	U4	10
+1p: Can 8/USA 44			

910kHz

KJJJ	Phoenix, AZ	U2	5
KAMD	Camden, AR	U4	5/0.5
KDEO	El Cajon, CA	U4	1
KNEW	Oakland, CA	U2	5
KOXR	Oxnard, CA	U4	5/1
KPOF	Denver, CO	U1	5/1
WRCQ	New Britain, CT	U4	5
WGAF	Valdosta, GA	U2	5
WSUI	Iowa City, IA	U4	5
WLCS	Baton Rouge, LA	U3	1
WABI	Bangor, ME	U2	5
WFDF	Flint, MI	U3	5/1
WOKK	Meridian, MS	U1	5/1
KBIM	Roswell, NM	U2	5/0.5
WLAS	Jacksonville, NC	U2	5
KCJB	Minot, ND	U4	5/1
WPFB	Middletown, OH	U1	1/0.1
KGLC	Miami, OK	U3	1
WGBI	Scranton, PA	U1	1/0.5
WSBA	York, PA	U4	5/1
WORD	Spartanburg, SC	U4	5/1
WJCW	Johnson City, TN	U2	5/1
KRIO	McAllen, TX	U2	5
KIKM	Sherman, TX	U3	1
KALL	Salt Lake Cy, UT	U2	5/1
WRNL	Richmond, VA	U2	5
KIXI	Seattle, WA	U3	1
KISN	Vancouver, WA	U4	5
CJDV	Drumheller, AB	U4	5
CFJC	Kamloops, BC	U1	10/1
CFSX	Stephenville, NF	U1	0.5
CKLY	Lindsay, ON	U4	10
CBO	Ottawa, ON	U3	5
CHRL	Roberval, QU	U2	10/2.5
+1p: USA 18			

920kHz

WKYD	Andalusia, AL	U2	5/0.5
KSRM	Soldotna, AK	U1	5
KARN	Little Rock, AR	U2	5
KDES	Palm Springs, CA	U4	5/0.5
KVEC	San Luis Obispo, CA	U1	1/0.5
KLMR	Lamar, CO	U2	5/0.5
WMEL	Melbourne, FL	U2	1
WGST	Atlanta, GA	U1	5/1
WBAA	We. Lafayette, IN	U2	5/1
KFNF	Shenandoah, IA	U1	1/0.5
WPTX	Lexington Pk, MD	U4	5/1
KDHL	Faribault, MN	U4	5
KWAD	Wadena, MN	U2	1
KORK	Las Vegas, NV	U4	5/0.5
KOLO	Reno, NV	U2	5/1
WTTM	Trenton, NJ	U3	1
KQEO	Albuquerque, NM	U2	1/0.5
WKRT	Cortland, NY	U2	1/0.5
WMNI	Columbus, OH	U4	1/0.5
KGAL	Lebanon, OR	U3	1
WKVA	Lewiston, PA	U2	1/0.5
WJAR	Providence, RI	U2	5
KELP	El Paso, TX	U2	1/0.5
KTAB	Odessa, TX	U2	1/0.5
KXLY	Spokane, WA	U1	5
WMMN	Fairmont, WV	U2	5
WOKY	Milwaukee, WI	U4	5/1
CKCQ	Quesnel, BC	U4	10
CFRY	Portage la Prairie, MB	U4	10
CJCJ	Woodstock, NB	U4	10/1
CJCH	Halifax, NS	U2	10/5
†CBO	Ottawa, ON	U4	50

Call	Location	Hrs	kW
CKCY	Sault Ste. Marie, ON	U4	10/5
CKNX	Wingham, ON	U4	10/1
* ——	Lac Etchemin, QU	U2	1
+1p: Can 4/USA 21			

930kHz

KTKN	Ketchikan, AK	U1	5/1
KHJ	Los Angeles, CA	U2	5
KIUP	Durango, CO	U2	5/1
WJAX	Jacksonville, FL	U2	5
WKXY	Sarasota, FL	U4	1/0.5
WMGR	Bainbridge, GA	U2	5/0.5
KSEI	Pocatello, ID	U2	5
WTAD	Quincy, IL	U2	5/1
WKCT	Bowling Green, KY	U2	1/0.5
WFMD	Frederick, MD	U4	5/1
WBCK	Battle Creek, MI	U4	5/1
WSLI	Jackson, MS	U2	5
KWOC	Poplar Bluff, MO	U2	5/0.5
KOGA	Ogallala, NE	U2	0.5
WWNH	Rochester, NH	U2	5
WPAT	Paterson, NJ	U4	5
WBEN	Buffalo, NY	U2	5
WSOC	Charlotte, NC	U2	5/1
WITN	Washington, NC	U2	5/1
WEOL	Elyria, OH	U4	1
WKY	Oklahoma Cy, OK	U2	5
KAGI	Grants Pass, OR	U2	5/1
KSDN	Aberdeen, SD	U4	5/1
KITE	Terrell Hills, TX	U2	5/1
WGNT	Huntington, WV	U2	5/1
CJCA	Edmonton, AB	U2	10/5
CFBC	St. John, NB	U4	10/5
CJON	St. John's, NF	U4	25
+1p: USA 21			

940kHz

KHOS	Tucson, AZ	U4	1/0.25
KFRE	Fresno, CA	U4	50
WINZ	Miami, FL	U4	50/10
WMAZ	Macon, GA	U4	50/10
WMIX	Mt. Vernon, IL	U4	5/0.5
KIOA	Des Moines, IA	U4	10/5
WYLD	New Orleans, LA	U4	10/0.5
WCPC	Houston, MS	U4	50/0.25
WFNC	Fayetteville, NC	U2	50/1
KIXZ	Amarillo, TX	U4	5/1
KBRE	Cedar City, UT	D1	10
CJIB	Vernon, BC	U2	10
CBM	Montreal, QU	U3	50
CJGX	Yorkton, SA	U2	10
+1p: Can 4/USA 20			

950kHz

WRMA	Montgomery, AL	U2	1
KRXA	Seward, AK	SH1	1
KFSA	Fort Smith, AR	U4	1/0.5
KIMN	Denver, CO	U3	5
WLOF	Orlando, FL	U2	5
WGOV	Valdosta, GA	U2	5/1
KLER	Orofino, ID	U2	1/0.5
KOEL	Oelwein, IA	U4	5/0.5
WAGM	Presque Isle, ME	U3	5
WWJ	Detroit, MI	U2	5
KRSI	St. Louis Pk, MN	U4	1
KLIK	Jefferson Cy, MO	U2	5/0.5
KMTX	Helena, MT	U3	5
WBBF	Rochester, NY	U4	1
WIBX	Utica, NY	U3	5
WPEN	Philadelphia, PA	U2	5
WSPA	Spartanburg, SC	U2	5
KWAT	Watertown, SD	U2	1
KDSX	Denison, TX	U4	0.5
KPRC	Houston, TX	U2	5
KSEL	Lubbock, TX	U4	5/0.5
KJR	Seattle, WA	U2	5
WKAZ	Charleston, WV	U2	5/1
CFAM	Altona, MB	U4	10
CKNB	Campbellton, NB	U3	10/1
CHER	Sydney, NS	U3	10
CKBB	Barrie, ON	U4	10/2.5
+1p: USA 23			

Call	Location	Hrs	kW

960kHz

WERC	Birmingham, AL	U2	5
AFRS	Kodiak, AK	U1	0.25
KOOL	Phoenix, AZ	U2	5
KNEZ	Lompoc, CA	U2	0.5
KABL	Oakland, CA	U3	5
WELI	New Haven, CT	U2	5
WRFC	Athens, GA	U2	5/0.5
WSBT	South Bend, IN	U4	5
KMA	Shenandoah, IA	U2	5
WBOC	Salisbury, MD	U4	5/1
WFGL	Fitchburg, MA	U4	1
WABG	Greenwood, MS	U2	1/0.5
KFVS	Cape Girardeau, MO	U2	5/0.5
KNEB	Scottsbluff, NE	U4	1/0.5
WEAV	Plattsburg, NY	U4	5
WFTC	Kinston, NC	U2	5/1
KGWA	Enid, OK	U3	1
KGKL	San Angelo, TX	U2	5/1
KAYK	Provo, UT	U2	5/1
WFIR	Roanoke, VA	U2	5
KALE	Richland, WA	U2	1
WTCH	Shawano, WI	U2	1
CFAC	Calgary, AB	U2	50
CHNS	Halifax, NS	U2	10
CKWS	Kingston, ON	U4	10/5
ZFB-1	Hamilton, Bermuda	U1	1
+1p: USA 22			

970kHz

WTBF	Troy, AL	U2	5/0.5
KIAK	Fairbanks, AK	U1	5
AFRS	King Salmon, AK	U1	0.25
KBIS	Bakersfield, CA	U4	1
KCHV	Coachella, CA	U4	5/1
KBEE	Modesto, CA	U4	1
WFLA	Tampa, FL	U4	5
WMAY	Springfield, IL	U4	1/0.5
WAVE	Louisville, KY	U4	5
KSYL	Alexandria, LA	U2	1
WCSH	Portland, ME	U2	5
WAMD	Aberdeen, MD	U4	0.5
WKHM	Jackson, MI	U4	1
KQAQ	Austin, MN	U4	5/0.5
KOOK	Billings, MT	U2	5
WWDJ	Hackensack, NJ	U4	5
WEBR	Buffalo, NY	U3	5
WDAY	Fargo, ND	U2	5
WREO	Ashtabula, OH	U4	5/1
KAKC	Tulsa, OK	U4	1/0.5
KOIN	Portland, OR	U2	5
WWSW	Pittsburgh, PA	U4	5
WJMX	Florence, SC	U2	5/1
WANV	Waynesboro, VA	U4	5/1
KREM	Spokane, WA	U2	5/1
CJYR	Edson, AB	U3	10
CBZ	Fredericton, NB	U2	10
CKCH	Hull, QU	U3	5
+1p: Can 1/USA 26			

980kHz

AFRS	Fort Greeley, AK	U1	0.25
KINS	Eureka, CA	U2	5/0.5
KFWB	Los Angeles, CA	U1	5
WRC	Washington, DC	U2	5
KSGM	Chester, IL	U2	1/0.5
WITY	Danville, IL	U4	1
WYOO	Richfield, MN	U3	5
KMBZ	Kansas Cy, MO	U2	5
KICA	Clovis, NM	U2	1
WTRY	Troy, NY	U2	5
WONE	Dayton, OH	U2	5
WILK	Wilkes-Barre, PA	U2	5/1
KDSJ	Deadwood, SD	U2	1
WSIX	Nashville, TN	U2	5
WFHG	Bristol, VA	U2	5/1
CKNW	New Westminster, BC	U3	50
CFPL	London, ON	U4	10/5
CHEX	Peterborough, ON	U4	10/5
CKGM	Montreal, QU	U4	10
CBV	Quebec, QU	U3	5

Call	Location	Hrs	kW
CKRM	Regina, SA	U4	10/5
+1p: USA 35			

990kHz

KTKT	Tucson, AZ	U4	10/1
KKIS	Pittsburg, CA	U4	5
WFAB	So. Miami, FL	U3	5
WHOO	Orlando, FL	U4	50/5
KSVP	Artesia, NM	U1	1/0.25
WIBG	Philadelphia, PA	U4	50/10
WLKW	Providence, RI	D3	50
WNOX	Knoxville, TN	U2	10
KWAM	Memphis, TN	D3	10
KTRM	Beaumont, TX	U3	1
KNIN	Wichita Falls, TX	U4	10/1
CBW	Winnipeg, MB	U1	50
CBY	Corner Brook, NF	U1	10
+1p: Can 22/USA 30			

1000kHz

WVOV	Huntsville, AL	D4	10/5
WCFL	Chicago, IL	U4	50
KKIM	Albuquerque, NM	D1	10
KTOK	Oklahoma Cy, OK	U4	5
WKYB	Hemingway, SC	D4	10/5
KXRB	Sioux Falls, SD	D3	10
KOMO	Seattle, WA	U2	50
CKBW	Bridgewater, NS	U2	10
+1p: USA 22			

1010kHz

KLRA	Little Rock, AR	U2	10/5
KCHJ	Delano, CA	U4	5/1
KCMJ	Palm Spgs, CA	U4	1/0.5
KIQI	San Francisco, CA	U4	10/0.25
WBIX	Jacksonville, FL	D3	10
WINQ	Tampa, FL	D3	50
WGUN	Decatur, GA	D1	50/10
WMOX	Meridian, MS	U4	10/1
KXEN	St. Louis, MO	D3	50
WINS	New York, NY	U3	50
WFGW	Black Mtn, NC	D5	50/10
KDJW	Amarillo, TX	U3	5/0.5
KKIK	Waco, TX	D3	10
CBR	Calgary, AB	U4	50
CFRB	Toronto, ON	U4	50
+1p: Can 7/USA 24			

1020kHz

KTNQ	Los Angeles, CA	U4	50
KBCQ	Roswell, NM	U4	50
KDKA	Pittsburgh, PA	U1	50
+10: USA 2			

1030kHz

WBZ	Boston, MA	U3	50
KCTA	Corpus Cristi, TX	L1	50
KTWO	Casper, WY	U2	50

1040kHz

WHO	Des Moines, IA	U1	50
+1p: USA 1			

1050kHz

WHN	New York, NY	U3	50
CFGP	Grande Prairie, AB	U3	10
CKSB	Winnipeg, MB	U2	10
CJIC	Sault Ste. Marie, ON	U2	10/2.5
CHUM	Toronto, ON	U4	50
CJNB	No. Battleford, SA	U2	10
+1p: USA 52			

1060kHz

KUPD	Tempe, AZ	U3	0.5
KPAY	Chico, CA	U2	10
KLMO	Longmont, CO	D1	10
WRMF	Titusville, FL	U4	10/5
WNOE	New Orleans, LA	U4	50/5
KYW	Philadelphia, PA	U3	50
KGFX	Pierre, SD	U4	10/1
KAMA	El Paso, TX	D1	10
KRSP	Salt Lake Cy, UT	D1	10
CFCN	Calgary, AB	U4	50

Call	Location	Hrs	kW
CJRP	Quebec, QU	U4	50/10
+1p: USA 23			
1070kHz			
WAPI	Birmingham, AL	U2	50/5
KNX	Los Angeles, CA	U1	50
WANM	Tallahassee, FL	D1	10
WIBC	Indianapolis, IN	U4	50/10
KFDI	Wichita, KS	U2	10/1
KHMO	Hannibal, MO	U4	5/1
KERR	Polson, MT	U2	25/1
WNCT	Greenville, NC	U4	10
WKOK	Sunbury, PA	U2	10/1
WHYZ	Greenville, SC	D3	50
WFLI	Chattanooga, TN	U4	50/1
WDIA	Memphis, TN	U4	50/5
KOPY	Alice, TX	U2	1
KENR	Houston, TX	U3	10/5
WINA	Charlottesville, VA	U2	5
WCIR	Beckley, WV	D1	10
WTSO	Madison, WI	U4	10/5
CFAX	Victoria, BC	U3	10
CBA	Moncton, NB	U1	50
CHOK	Sarnia, ON	U4	10
+1p: Can 3/USA 5			
1080kHz			
KANC	Anchorage, AK	U1	10
KSCO	Santa Cruz, CA	U2	10/5
WTIC	Hartford, CT	U2	50
WVCG	Coral Gables, FL	U4	10
WCOB	Marietta, GA	D3	10
WKLO	Louisville, KY	U4	10/1
KWJJ	Portland, OR	U4	50/10
WEEP	Pittsburgh, PA	D3	50/25
KRLD	Dallas, TX	U2	50
CKSA	Lloydminster, AB	U2	10
+1p: Can 4/USA 20			
1090kHz			
KAAY	Little Rock, AR	U2	50
KNCR	Fortuna, CA	D1	10
KAAT	Denver, CO	D3	50
WCMG	Jacksonville, FL	D3	10
WBAL	Baltimore, MD	U2	50
KBOZ	Bozeman, MT	U2	5
KING	Seattle, WA	U4	50
CHEC	Lethbridge, AB	U4	5
CHRS	Longueuil, QU	D1	10
CKKW	Kitchener, ON	U4	10
+1p: Can 8/USA 26			
1100kHz			
KFAX	San Fransisco, CA	SH5	50/10
KREX	Grand Junction, CO	U6	50/10
WHLI	Hempstead, NY	D3	10
WWWE	Cleveland, OH	U1	50
+1p: USA 8			
1110kHz			
WBCA	Bay Minette, AL	D4	10
KAKA	Dermott, AR	D3	10
KRLA	Pasadena, CA	U4	50/10
KPOP	Roseville, CA	U2	0.5
WTIS	Tampa, FL	D3	10
WMBI	Chicago, IL	L1	5
WJMI	Petoskey, MI	D3	10
KFAB	Omaha, NE	U2	50
WBT	Charlotte, NC	U2	50
KBND	Bend, OR	U2	10/1
WZAM	Norfolk, VA	D3	50
CHQT	Edmonton, AB	U2	50
CBD	St. John, NB	U4	10
CKJD	Sarnia, ON	U4	10/0.5
*CBSL	Rimouski, QU	U4	10
+1p: Can 3/USA 23			
1120kHz			
KMOX	St. Louis, MO	U1	50
KPNW	Eugene, OR	U4	50
+1p: USA 3			
1130kHz			
KRDU	Dinuba, CA	U3	1
KSDO	San Diego, CA	U4	50/10
WNRJ	Gainesville, GA	D1	10
WMGA	Moultrie, GA	U2	10/0.25
KWKH	Shreveport, LA	U2	50
WCAR	Detroit, MI	U4	50/10
WDGY	Minneapolis, MN	U4	50/25
WNEW	New York, NY	U2	50
KBMR	Bismarck, ND	D1	10
KWBY	Edna, TX	D3	10
WISN	Milwaukee, WI	U4	50/10
CKWX	Vancouver, BC	U2	50
+1p: Can 1/USA 16			
1140kHz			
KRAK	Sacramento, CA	U3	50
WQBA	Miami, FL	U4	10/5
KGEM	Boise, ID	U3	10
KLUC	Las Vegas, NV	D1	10
KSOO	Sioux Falls, SD	U2	10/5
WRVA	Richmond, VA	U3	50
CKXL	Calgary, AB	U3	10
CBI	Sydney, NS	U2	10
CJTR	Trois-Rivières, QU	U4	10
+1p: Can 7/USA 15			
1150kHz			
WJRD	Tuscaloosa, AL	U2	5/1
KCKY	Coolidge, AZ	U2	1
KXLR	No. Little Rock, AR	U2	5/1
KIIS	Los Angeles, CA	U1	5/1
KPLS	Santa Rosa, CA	U4	5/0.5
WDEL	Wilmington, DE	U4	5
WNDB	Daytona Bch, FL	U2	1
KWKY	Des Moines, IA	U4	1
KSAL	Salina, KS	U2	5
WJBO	Baton Rouge, LA	U3	5
WHMC	Gaithersburg, MD	U4	1/0.5
WCOP	Boston, MA	U4	5
WCEN	Mt. Pleasant, MI	U2	1/0.5
KSEN	Shelby, MT	U4	5
KDEF	Albuquerque, NM	U2	5/0.5
WRUN	Utica, NY	U4	5/1
WGBR	Goldsboro, NC	U4	5/1
WCUE	Cuyahoga Falls, OH	U4	1/0.5
WIMA	Lima, OH	U2	1
KNED	McAlester, OK	U2	1/0.5
KAGO	Klamath Falls, OR	U2	5/1
WDIX	Orangeburg, SC	U4	5/0.5
WGOW	Chattanooga, TN	U2	5/1
WCRK	Morristown, TN	U2	1/0.5
KAYO	Seattle, WA	U1	5/1
CKIQ	Kelowna, BC	U2	10/1
CKX	Brandon, MB	U2	10
CHSJ	St. John, NB	U4	10/5
CKOC	Hamilton, ON	U4	10
CJRC	Ottawa, ON	U4	50/5
+1p: Can 8/USA 35			
1160kHz			
WJJD	Chicago, IL	L3	50
KSL	Salt Lake Cy, UT	U1	50
+1p: Can 1			
1170kHz			
WCOV	Montgomery, AL	U4	10/1
KJNP	North Pole, AK	U2	50
KCBQ	San Diego, CA	U4	50/5
KLOK	San José, CA	U4	50/5
KSTT	Davenport, LA	U4	1
KVOO	Tulsa, OK	U2	50
KPUG	Bellingham, WA	U3	5/1
WWVA	Wheeling, WV	U2	50
CKGY	Red Deer, AB	U4	10/5
CFML	Cornwall, ON	D3	10
CFNS	Saskatoon, SA	U3	1
+1p: Can 7/USA 12			
1180kHz			
——	Marathon Key, FL	U3	50
KOFI	Kalispell, MT	U2	10
WHAM	Rochester, NY	U1	50
+1p: USA 1			
1190kHz			
KRDS	Tolleson, AZ	U3	0.25
KEZY	Anaheim, CA	U2	5/1
WOWO	Ft. Wayne, IN	U2	50
WANN	Annapolis, MD	D3	10
KAYQ	Kansas City, MO	U2	1/0.25
WLIB	New York, NY	L3	10
KEX	Portland, OR	U3	50
KLIF	Dallas, TX	U4	50/5
CJMR	Mississauga, ON	D3	10
CHTN	Charlottetown, PEI	U2	10
CFSL	Weyburn, SA	U2	10/5
+1p: Can 2/USA 16			
1200kHz			
WOAI	San Antonio, TX	U1	50
+1p: Can 1/USA 6			
1210kHz			
WKNX	Saginaw, MI	D3	10
KGYN	Guymon, OK	U2	10
WCAU	Philadelphia, PA	U1	50
CFFB	Frobisher Bay, NWT	U1	0.25
——	Thule AFB, Greenland	U1	0.25
+1p: Can 1/USA 3			
1220kHz			
WGAR	Cleveland, OH	U3	50
CJOC	Lethbridge, AB	U2	10/5
CKDA	Victoria, BC	U3	50
CJRB	Boissevain, MB	U4	10
CKCW	Moncton, NB	U2	10
CJSS	Cornwall, ON	U4	1
CJRL	Kenora, ON	U1	1
CHSC	St. Catharines, ON	U3	1/0.5
CKSM	Shawinigan, QU	U4	10/2.5
+1p: USA 51			
1230kHz			
CJOK	Ft. McMurray, AB	U1	1/0.5
CKQR	Castlegar, BC	U5	1/0.25
CKTK	Kitimat, BC	U1	1/0.25
CJNL	Merritt, BC	U1	1/0.25
CFBV	Smithers, BC	U1	1/0.25
CHFC	Ft. Churchill, MB	U1	0.25
CFLN	Happy Valley, NF	U1	1/0.25
VOAR	St. John's, NF	U1	0.1
CFGN	Port aux Basques, NF	U1	0.25
CFLK	Kapuskasing, ON	U1	0.25
CKMP	Midland, ON	U1	1/0.25
CJTT	New Liskeard, ON	U1	1/0.25
CFPA	Thunder Bay, ON	U1	1/0.25
CHVD	Dolbeau, QU	U1	10/0.25
CJSA	Ste-Agathe-des-Monts, QU	U1	1/0.25
CKLD	Thetford Mines, QU	U1	1/0.25
ZBM-1	Hamilton, Bermuda	U1	1
+1p: Can 16/USA 169			
1240kHz			
CFVR	Abbotsford, BC	U2	1/0.25
CFEK	Fernie, BC	U3	1/0.5
CKBX	100 Mile House, BC	U1	1/0.25
CKMK	Mackenzie, BC	U1	1/0.25
CKOO	Osoyoos, BC	U1	1/0.25
CJAV	Port Alberni, BC	U1	1/0.25
CJAR	The Pas, MB	U1	1/0.5
CKIM	Baie Verte, NF	U1	1/0.5
CJNH	Bancroft, ON	U1	1/0.25
CJCS	Stratford, ON	U1	0.5/0.25
CJWA	Wawa, ON	U1	1/0.25
CJRW	Summerside, PEI	U1	0.25
CJAF	Cabano, QU	U1	1/0.25
CJMD	Chibougamau, QU	U1	1/0.25
CKLS	La Sarre, QU	U1	1/0.25
CFLM	La Tuque, QU	U1	1/0.25
CFLS	Levis, QU	U1	0.25
CKBS	St-Hyacinthe, QU	U1	0.25
+1p: Can 16/USA 160			

Call	Location	Hrs	kW
1250kHz			
KALO	Little Rock, AR	U2	1/0.5
KTMS	Santa Barbara, CA	U3	1
WDAE	Tampa, FL	U3	5
WGL	Ft. Wayne, IN	U4	1
KFKU	Lawrence, KS	ST2	5
WREN	Topeka, KS	ST2	5
WARE	Ware, MA	U2	1
KBRF	Fergus Falls, MN	U2	1
WHNY	McComb, MS	U2	5/1
WKBR	Manchester, NH	U4	5
WTAE	Pittsburgh, PA	U2	5
WTMA	Charleston, SC	U2	5/1
KPAC	Port Arthur, TX	U2	5/1
WDVA	Danville, VA	U2	5
KWSU	Pullman, WA	ST1	5
KYAC	Seattle, WA	ST1	5
WEMP	Milwaukee, WI	U4	5
CHSM	Steinbach, MB	U4	10
CHWO	Oakville, ON	U4	10/5
CBOF	Ottawa, ON	U3	10
CBGA	Matane, QU	U2	10/5
CKOM	Saskatoon, SA	U2	10
+1p: USA 41			
1260kHz			
KGIL	San Fernando, CA	U4	5
KYA	San Francisco, CA	U1	5/1
WWDC	Washington, DC	U4	5
WWOK	Miami, FL	U4	5
WWPF	Palatka, FL	U2	1/0.5
WIBV	Belleville, IN	U4	5
WNDE	Indianapolis, IN	U2	5
KWHK	Hutchinson, KS	U4	1/0.5
WEZE	Boston, MA	U2	5
WALM	Albion, MI	U2	1/0.5
KROX	Crookston, MN	U2	1/0.5
KGBX	Springfield, MO	U2	5
WBUD	Trenton, NJ	U4	5/1
KVSF	Santa Fé, NM	U1	1
WNDR	Syracuse, NY	U2	5
WGWR	Asheboro, NC	U4	5/0.5
WMGC	Cleveland, OH	U4	5
WNXT	Portsmouth, OH	U4	5/1
KWSH	Wewoka, OK	U2	1
KMCM	McMinnville, OR	U2	1
WWYN	Erie, PA	U4	5
WCHV	Charlottesville, VA	U4	5/1
*	Amery, WI	U4	5
KPOW	Powell, WY	U2	5/1
CFRN	Edmonton, AB	U2	50
+1p: USA 42			
1270kHz			
KCOK	Tulare, CA	U2	5/1
WNOG	Naples, FL	U2	0.5
WTNT	Tallahassee, FL	U2	5
KTFI	Twin Falls, ID	U2	5/1
WHBF	Rock Island, IL	U2	5
WEIC	Charleston, IL	U4	1/0.5
WCMR	Elkhart, IN	U4	5/1
WWCA	Gary, IN	U3	1
KSCB	Liberal, KS	U2	1/0.5
WGBC	Cumberland, MD	U4	5/1
WSPR	Springfield, MA	U3	5/1
WVOY	Charlevoix, MI	U2	5
WXYZ	Detroit, MI	U2	5
KWEB	Rochester, MN	U4	5/1
WTSN	Dover, NH	U4	5
WCGC	Belmont, NC	U2	1/0.5
KBOM	Mandan, ND	U1	1/0.25
WLBR	Lebanon, PA	U4	5/1
KNWC	Sioux Falls, SD	U2	1
WLIK	Newport, TN	U2	5/0.5
KIOX	Bay City, TX	U2	1
KFJZ	Fort Worth, TX	U3	5
KIML	Gillette, WY	U2	5/1
CHAT	Medicine Hat, AB	U4	10
CHWK	Chilliwak, BC	U2	10
CJCB	Sidney, NS	U2	10
CFGT	Alma, QU	U2	10/5
+1p: Can 2/USA 39			

Call	Location	Hrs	kW
1280kHz			
WNPT	Tuscaloosa, AL	U2	5/0.5
KFYV	Arroyo Grande, CA	U2	1
KFOX	Long Beach, CA	U1	1
KJOY	Stockton, CA	U2	1
KTLK	Denver, CO	U4	5
WMRO	Aurora, IL	U4	1/0.5
WOKQ	Evansville, IN	U2	5/1
KSOK	Arkansas Cy, KS	U1	1/0.1
WGSO	New Orleans, LA	U3	5
WABK	Gardiner, ME	U2	5
WEIM	Fitchburg, MA	U4	5/1
WWTC	Minneapolis, MN	U2	5
KVOX	Moorchead, MN	U2	1/0.5
WADO	New York, NY	U3	5
WROC	Rochester, NY	U2	5
WSAT	Salisbury, NC	U2	1
WONW	Defiance, OH	U2	1/0.5
KBDF	Eugene, OR	U2	5/1
WHVR	Hanover, PA	U4	5/0.5
WKST	Newcastle, PA	U2	1
WANS	Anderson, SC	U2	5/1
KWMS	Salt Lake Cy, UT	U2	5/0.5
KIT	Yakima, WA	U1	5/1
WNAM	Neenah, WI	U4	5/1
CHQB	Powell River, BC	U3	1
CHAM	Hamilton, ON	U4	10
CJMS	Montreal, QU	U4	50
CKCV	Quebec, QU	U4	10/5
CJSL	Estevan, SA	U3	1
+1p: Can 1/USA 36			
1290kHz			
KCUB	Tucson, AZ	U1	1
KHSL	Chico, CA	U2	5
KMEN	San Bernardino, CA	U4	5
WTMC	Ocala, FL	U2	5/1
WIRK	We. Palm Bch, FL	U2	5/1
WTOC	Savannah, GA	U2	5
WIRL	Peoria, IL	U4	5
KWNS	Pratt, KS	U4	5/0.5
WHGR	Houghton Lake, MI	U2	5
KGVO	Missoula, MT	U2	5
KOIL	Omaha, NE	U2	5
WKNE	Keene, NH	U3	5
WGLI	Babylon, NY	U4	5/1
WNBF	Binghamton, NY	U2	5
WHKY	Hickory, NC	U2	5/1
WHIO	Bayton, OH	U2	5
KUMA	Pendleton, OR	U2	5
WFBG	Altoona, PA	U2	5/1
WICE	Providence, RI	U4	5/1
WFIG	Sumter, SC	U2	1
WATO	Oak Ridge, TN	U4	5/0.5
KRGV	Weslaco, TX	U2	5
KTRN	Wichita Falls, TX	U2	5/1
WVOW	Logan, WV	U2	5/1
KOWB	Laramie, WY	U4	5/1
CJBK	London, ON	U3	10
CHRM	Matane, QU	U4	10
+1p: Can 1/USA 36			
1300kHz			
KROP	Brawley, CA	U1	1/0.5
KYNO	Fresno, CA	U2	5/1
KWKW	Pasadena, CA	U4	5/1
KVOR	Colorado Spgs, CO	U1	5/1
WAVZ	New Haven, CT	U2	1
WRKT	Cocoa Beach, FL	U4	5/1
WFFG	Marathon, FL	U4	0.5
KOZE	Lewiston, ID	U2	5/1
WTAQ	LaGrange, IL	U4	5/0.5
KGLO	Mason City, IA	U2	5
WBLG	Lexington, KY	U2	1
WIBR	Baton Rouge, LA	U4	1
WFBR	Baltimore, MD	U4	5
WOOD	Grand Rapids, MI	U2	5
WRBC	Jackson, MS	U1	5/1
KPTL	Carson City, NV	U2	5/0.5
WSYD	Mt. Airy, NC	U2	5/1
WERE	Cleveland, OH	U3	5
KXXO	Tulsa, OK	U4	5/1
WMAK	Nashville, TN	U2	5
KVET	Austin, TX	U4	5/1

Call	Location	Hrs	kW
KLAR	Laredo, TX	U2	1/0.5
KMPS	Seattle, WA	U2	5
CBAF	Moncton, NB	U3	5
CJME	Regina, SA	U3	1
+1p: USA 46			
1310kHz			
KQXE	Mesa, AZ	U2	5/0.5
KDIA	Oakland, CA	U3	5
KFKA	Greeley, CO	U2	5/1
WICH	Norwich, CT	U4	5/1
KLIX	Twin Falls, ID	U2	5/1
WIFE	Indianapolis, IN	U2	5/1
KOKX	Keokuk, IA	U2	1/0.5
WTTL	Madison, KY	U2	1/0.5
WLOB	Portland, ME	U4	5
WORC	Worcester, MA	U4	5/1
WNIC	Dearborn, MI	U4	5
KFSB	Joplin, MO	U4	5/1
KEIN	Great Falls, MT	U1	5/1
WJLK	Ashbury Park, NJ	U5	1/0.25
WCAM	Camden, NJ	U1	1/0.25
WTLB	Utica, NY	U2	1/0.5
WISE	Asheville, NC	U2	5/1
WTIK	Durham, NC	U4	5/1
KNOX	Grand Forks, ND	U2	5
KNPT	Newport, OR	U2	5/1
WDOD	Chattanooga, TN	U2	5
WDXI	Jackson, TN	U2	5/1
WRR	Dallas, TX	U2	5
WEEL	Fairfax, VA	U4	5/0.5
WGH	Newport News, VA	U2	5
WIBA	Madison, WI	U2	5
CIOK	St. Paul, AB	U2	10
CKOY	Ottawa, ON	U4	50
CFGM	Richmond Hill, ON	U4	50
CHGB	La Pocatiere, QU	U2	10
+1p: USA 36			
1320kHz			
WAGF	Dothan, AL	U2	1
KWHN	Fort Smith, AR	U2	5
KUDE	Oceanside, CA	U3	0.5
KCRA	Sacramento, CA	U4	5/1
WATR	Waterbury, CT	U4	5/1
WGMA	Hollywood, FL	U4	5
WVOJ	Jacksonville, FL	U2	5
WKAN	Kankakee, IL	U2	1/0.5
WARA	Attleboro, MA	U4	1
WILS	Lansing, MI	U4	5/1
WDMJ	Marquette, MI	U2	1
KOZY	Grand Rapids, MN	U2	5
KOLT	Scottsbluff, NE	U2	5/1
WCOG	Greensboro, NC	U4	5/1
WKAP	Allentown, PA	U4	5/1
WGET	Gettysburg, PA	U4	1/0.5
WKTQ	Pittsburgh, PA	U2	5
WSCR	Scranton, PA	U2	1/0.5
WOIC	Columbia, SC	U2	5/1
KELO	Sioux Falls, SD	U2	5
KXYZ	Houston, TX	U2	5
KCPX	Salt Lake Cy, UT	U3	5
KXRO	Aberdeen, WA	U2	5/1
WFHR	Wisconsin Rapids, WI	U2	5/0.5
CHQM	Vancouver, BC	U4	50
CKEC	New Glasgow, NS	U2	5
CFTJ	Cambridge, ON	U4	1
CJSO	Sorel, QU	U4	10/5
+1p: Can 1/USA 34			
1330kHz			
KFAC	Los Angeles, CA	U2	5
WFTP	Fort Pierce, FL	U2	1/0.5
WMLT	Dublin, GA	U2	5/0.5
WJPS	Evansville, IN	U2	5/1
KWWL	Waterloo, IA	U4	5
KFH	Wichita, KS	U2	5
KVOL	Lafayette, LA	U2	5/1
WHET	Waltham, MA	U4	5
WTRX	Flint, MI	U4	5/1
WLOL	Minneapolis, MN	U4	5
WJPR	Greenville, MS	U2	1/0.5
KGAK	Gallup, NM	U2	5/1
WEVD	New York, NY	ST3	5
WPOW	New York, NY	ST3	5

Call	Location	Hrs	kW
WHOT	Campbell, OH	U4	0.5/1
KUPL	Portland, OR	U3	5
WRIE	Erie, PA	U4	5
WLAT	Conway, SC	U2	5/0.5
WFBC	Greenville, SC	U2	5
KVKM	Monahans, TX	U2	5/1
WBTM	Danville, VA	U2	5/1
WHBL	Sheboygan, WI	U4	5/1
KOVE	Lander, WY	U2	5/1
CKKR	Rosetown, SA	U3	10
+1p: USA 37			
1340kHz			
CKBR	Brooks, AB	U1	1/0.25
CFKC	Creston, BC	U1	0.25
CKGF	Grand Forks, BC	U1	1/0.25
CKCR	Revelstoke, BC	U1	1/0.25
CIVH	Vanderhoof, BC	U1	1/0.25
CFGB	Happy Valley, NF	U1	1
CFLW	Wabush, NF	U3	0.25
CFYK	Yellowknife, NWT	U1	1
CJLS	Yarmouth, NS	U4	5/1
CKNR	Elliot Lake, ON	U1	1/0.25
CFLH	Hearst, ON	U1	1/0.25
CKAR-1	Parry Sound, ON	U1	0.25
CKOX	Woodstock, ON	U5	1/0.25
CHAD	Amos, QU	U1	1/0.25
CJAN	Asbestos, QU	U5	1/0.25
CFED	Chapais, QU	U1	0.25
CKMG	Maniwaki, QU	U1	1/0.25
CFOM	Quebec, QU	U1	0.25
CBGN	Ste-Anne-des-Monts, QU	U1	1/0.25
CKVT	Temiskaming, QU	U1	0.25
ZBM-2	Hamilton, Bermuda	U1	1
+1p: Can 19/USA 175			
1350kHz			
WGAD	Gadsden, AL	U2	5/1
KCKC	San Bernardino, CA	U4	5/0.5
KSRO	Santa Rosa, CA	U2	5
KKAM	Pueblo, CO	U2	5/1
WNLK	Norwalk, CT	U2	1/0.5
WEZY	Cocoa, FL	U2	1
WDCF	Dade City, FL	U2	1/0.5
KRLC	Lewiston, ID	U2	5/1
WXCL	Peoria, IL	U4	1
WIOU	Kokomo, IN	U4	5/1
KRNT	Des Moines, IA	U2	5
WSMB	New Orleans, LA	U2	5
WHWH	Princeton, NJ	U4	5
KABQ	Albuquerque, NM	U2	5/0.5
WSLR	Akron, OH	U3	5
KRHD	Duncan, OK	U1	0.25/0.1
WZIX	York, PA	U2	5/1
KCOR	San Antonio, TX	U2	5
WKLX	Portsmouth, VA	U4	5
CJDC	Dawson Creek, BC	U1	1
CJCR	Gander, NF	U1	1
CKAD	Middleton, NS	U3	1
CKLB	Oshawa, ON	U4	10/5
CHOV	Pembroke, ON	U3	1
CJLM	Joliette, QU	U4	10/1
CHAL	St-Pamphile, QU	U3	1
+1p: Can 5/USA 41			
1360kHz			
KNWZ	Glendale, AZ	U2	5/0.5
KFFA	Helena, AR	U2	1
KFIV	Modesto, CA	U4	5/1
KGB	San Diego, CA	U1	5/1
WDRC	Hartford, CT	U2	5
WKAT	Miami Beach, FL	U1	5/1
KSCJ	Sioux City, IA	U2	5
WKYO	Caro, MI	U4	1
WKMI	Kalamazoo, MI	U2	5/1
WWBZ	Vineland, NJ	U2	1
WKOP	Binghamton, NY	U4	5/0.5
WCHL	Chapel Hill, NC	U2	1
KEYZ	Williston, ND	U2	5
WSAI	Cincinnati, OH	U2	5
KOHU	Hermiston, OR	U2	1
WIXZ	McKeesport, PA	U2	5/1
WPPA	Pottsville, PA	U4	5/0.5
KBUK	Baytown, TX	U4	1
KRYS	Corpus Christi, TX	U1	1
KXOL	Fort Worth, TX	U2	5/1
KMO	Tacoma, WA	U1	5
WGEE	Green Bay, WI	U2	5
KRKK	Rock Spgs, WY	U2	1/0.5
CKBC	Bathurst, NB	U2	10
CJVL	Ste-Marie, QU	U4	10/5
+1p: Can 1/USA 48			
1370kHz			
KREL	Corona, CA	U4	5/0.5
KEEN	San José, CA	U4	5
WCOA	Pensacola, FL	U2	5
WTTS	Bloomington, IN	U4	5/0.5
KDTH	Dubuque, IA	U2	5/1
KGNO	Dodge City, KS	U2	5/1
WDEA	Ellsworth, ME	U4	5
WKIK	Leonardtown, MD	U2	1/0.5
WWAM	Cadillac, MI	U4	5/1
KSUM	Fairmont, MN	U4	1
KXLF	Butte, MT	U1	5
WFEA	Manchester, NH	U3	5
WSAY	Rochester, NY	U2	5
WSPD	Toledo, OH	U2	5
KAST	Astoria, OR	U2	1
WWCB	Corry, PA	U2	1/0.5
WDEF	Chattanooga, TN	U2	5
KFRO	Longview, TX	U2	1
CFOK	Westlock, AB	U2	10
CHPQ	Parksville, BC	U2	1
CFLV	Valleyfield, QU	U4	10/5
CJWW	Saskatoon, SA	U4	10
+1p: Can 1/USA 46			
1375kHz			
——	St. Pierre, St. Pierre & Miquelon	U1	4
1380kHz			
KGMS	Sacramento, CA	U4	1
KTOM	Salinas, CA	U4	5
WOWW	Naugatuck, CT	U4	5/0.5
WAMS	Wilmington, DE	U4	5/1
WDAT	Ormond Bch, FL	U4	5/1
WLCY	St. Petersburg, FL	U2	5
WAOK	Atlanta, GA	U2	5
WBEL	Beloit, WI	U2	5
WMEE	Fort Wayne, IN	U4	5
KCIM	Carroll, IA	U4	1
KUDL	Fairway, KS	U4	5/0.5
WPLB	Greenville, MI	U2	1/0.5
WPHM	Port Huron, MI	U4	5
KLIZ	Brainerd, MN	U2	5
KWK	St. Louis, MO	U4	5
WBBX	Portsmouth, NH	U2	1
WAWZ	Zarephath, NJ	ST4	5
WBNX	New York, NY	ST3	5
WKKE	Asheville, NC	U2	5/1
WTOB	Winston-Salem, NC	U2	5/1
KSWO	Lawton, OK	U4	1
KMUS	Muskogee, OK	U2	1/0.5
KSRV	Ontario, OR	U2	5/1
KOTA	Rapid City, SD	U2	5
KBWD	Brownwood, TX	U1	1/0.5
KTSM	El Paso, TX	U1	5/0.5
WSYB	Rutland, VT	U2	5/1
WTVR	Richmond, VA	U2	5
KRKO	Everett, WA	U2	5
CKPC	Brantford, ON	U4	10
CKLC	Kingston, ON	U4	10
CFDA	Victoriaville, QU	U2	1
+1p: Can 3/USA 38			
1390kHz			
WHMA	Anniston, AL	U2	5/1
KGER	Long Beach, CA	U2	5
KCEY	Turlock, CA	U4	5
WVON	Chicago, IL	U4	5
KCBC	Des Moines, IA	U3	1
WEGP	Presque Isle, ME	U2	5
WPLM	Plymouth, MA	U4	5
WROA	Gulfport, MI	U4	5
KENN	Farmington, NM	U2	5/1
WFBL	Syracuse, NY	U2	5
WEED	Rocky Mount, NC	U2	5/1
WADA	Shelby, NC	U2	1/0.5
KKOA	Minot, ND	U1	5/1
WFMJ	Youngstown, OH	U2	5
KCRC	Enid, OK	U3	1
KSLM	Salem, OR	U1	5/1
WLAN	Lancaster, PA	U4	5/1
WCSC	Charleston, SC	U2	5
WTJS	Jackson, TN	U2	5/1
KBLW	Logan, UT	U2	1/0.5
WEAM	Arlington, VA	U4	5
WWOD	Lynchburg, VA	U2	5/1
KBBO	Yakima, WA	U2	1/0.5
CKKC	Nelson, BC	U3	1
CHOO	Ajax, ON	U3	10
+1p: USA 33			
1400kHz			
CFLD	Burns Lake, BC	U1	0.25
CHNL-1	Clearwater, BC	U1	1/0.25
CKGR	Golden, BC	U1	1/0.25
CINL	Princeton, BC	U1	1/0.25
CKCB	Collingwood, ON	U1	1/0.25
CKOB	Renfrew, ON	U1	0.25
CKRV	Drummondville, QU	U3	0.25/0.
CKFL	Lac Megantic, QU	U1	1/0.25
CJFP	Riviere-du-Loup, QU	U3	10/5
CKRN	Rouyn, QU	U1	1/0.25
CKSJ	St-Jovite, QU	U1	1/0.25
CKSW	Swift Current, SA	U1	1/0.25
+1p: Can 17/USA 179			
1410kHz			
WUNI	Mobile, AL	U2	5
WPXC	Prattville, AL	U4	5/1
KERN	Bakersfield, CA	U1	1
KMYC	Marysville, CA	U4	5/1
KCAL	Redlands, CA	U2	5/0.5
KCOL	Ft. Collins, CO	U2	1
WPOP	Hartford, CT	U4	5
WDOV	Dover, DE	U2	5
WMYR	Fort Myers, FL	U2	5/0.5
WLAQ	Rome, GA	U2	1
KWBB	Wichita, KS	U4	5/1
WLBJ	Bowling Green, KY	U2	5/1
KRWB	Roseau, MN	U2	1
KAHL	No. Platte, NE	U2	5/0.5
WDOE	Dunkirk, NY	U2	1/0.5
WELM	Elmira, NY	U2	1/0.5
WOTT	Watertown, NY	U3	5/1
WING	Dayton, OH	U2	5
KQV	Pittsburgh, PA	U4	5
KRIG	Odessa, TX	U2	1
KNAL	Victoria, TX	U2	0.5
WIZM	La Crosse, WI	U2	5
KWYO	Sheridan, WY	U1	1/0.5
CFUN	Vancouver, BC	U4	50
CIGO	Port Hawkesbury, NS	U4	10
CKSL	London, ON	U4	10
CFMB	Montreal, QU	U3	10
+1p: USA 40			
1420kHz			
KTAN	Sierra Vista, AZ	U2	1/0.5
KSTN	Stockton, CA	U4	5/1
WDBF	Delray Bch, FL	U4	5/0.5
WRBL	Columbus, GA	U2	5
WIMS	Michigan City, IN	U4	5/0.5
WOC	Davenport, IA	U4	5
KULY	Ulysses, KS	U4	1/0.5
WVJS	Owensboro, KY	U4	5/1
KPEL	Lafayette, LA	U2	1/0.5
WBSM	New Bedford, MA	U3	5/1
WBEC	Pittsfield, MA	U2	1
KTOE	Mankato, MN	U2	5
WQBC	Vicksburg, MS	U1	1/0.5
WVOT	Wilson, NC	U2	1/0.5
WHK	Cleveland, OH	U2	5
WCOJ	Coatesville, PA	U2	5
WCED	DuBois, PA	U2	5/0.5
WKSR	Pulaski, TN	U2	1
KLUF	Lufkin, TX	U2	1
KUJ	Walla Walla, WA	U2	5
CKDY	Digby, NS	U3	1
CKPT	Peterborough, ON	U4	10/5
CJMT	Chicoutimi, QU	U2	10/2.5

Call	Location	Hrs	kW
CKTL	Plessisville, QU	1/0.5	
CJVR	Melfort, SA	U2	10
——	Sondre Stromfjord, Greenland	U1	0.25
+1p: Can 2/USA 42			

1425kHz

——	Thule AFB, Greenland	U1	1

1430kHz

KARM	Fresno, CA	U4	5
KALI	San Gabriel, CA	U4	5
KEGL	Santa Clara, CA	U3	1
KOSI	Aurora, CO	U2	5
WQPD	Lakeland, FL	U1	5/1
WPCF	Panama City, FL	U4	5
WWGS	Tifton, GA	U2	5/1
WIRE	Indianapolis, IN	U2	5
WNAV	Annapolis, MD	U2	5/1
WIL	St. Louis, MO	U4	5
KRGI	Grand Island, NE	U2	5/1
WNJR	Newark, NJ	U2	5
KKAT	Roswell, NM	U2	5/1
WENE	Endicott, NY	U2	5
WMNC	Morganton, NC	U2	5/1
WFOB	Fostoria, OH	U4	1
KALV	Alva, OK	U3	0.5
KELI	Tulsa, OK	U2	5
WVAM	Altoona, PA	U2	5/1
WENO	Madison, TN	U2	5/1
KLO	Ogden, UT	U2	5
KBRC	Mt. Vernon, WA	U2	5/1
WEIR	Weirton, WV	U4	1
CKFH	Toronto, ON	U4	50
+1p: USA 40			

1440kHz

AFRS	Tatalina, AK	U1	0.25
WHHY	Montgomery, AL	U2	5/1
KVON	Napa, CA	U4	5/0.5
KPRO	Riverside, CA	U1	1
KUHL	Santa Maria, CA	U2	1
WAYK	Lehigh Acres, CA	U4	5/1
WNBE	Winter Park, FL	U2	5/1
WGIG	Brunswick, GA	U2	5/1
WAKC	Normal, IL	U4	1/0.5
WGEM	Quincy, IL	U4	5/1
WROK	Rockford, IL	U5	5/0.5
KEWI	Topeka, KS	U3	5/1
KMLB	Monroe, LA	U2	5/1
WNCR	Worcester, MA	U4	5
WBCM	Bay City, MI	U1	1/0.5
WCHB	Inkster, MI	U4	1/0.5
KQRS	Golden Valley, MN	U2	5/0.5
WBUY	Lexington, NC	U2	5/1
KKXL	Grand Forks, ND	U1	1/0.5
WHHH	Warren, OH	U4	5
KMED	Medford, OR	U1	5/1
KODL	The Dalles, OR	U2	1
WQOK	Greenville, SC	U2	5
KPUR	Amarillo, TX	U2	5/1
KEYS	Corpus Christi, TX	U2	1
KDNT	Denton, TX	U4	5/0.5
WHIS	Bluefield, WV	U1	5/0.5
WAJR	Morgantown, WV	U4	5/0.5
WNFL	Green Bay, WI	U4	5/0.5
CJOI	Wetaskiwin, AB	U2	10
CFCP	Courtenay, BC	U2	1
CFGO	Ottawa, ON	U3	50
+1p: Can 3/USA 32			

1450kHz

CKYR	Jasper, AB	U1	0.1
CKSP	Summerland, BC	U1	1/0.25
CBG	Gander, NF	U1	0.25
CFAB	Windsor, NS	U1	0.25
CFJR	Brockville, ON	U5	1/0.25
CHUC	Port Hope, ON	U4	1
CJBM	Causapscal, QU	U1	1/0.25
CHEF	Granby, QU	U4	10/5
CHRT	St. Eleuthère, QU	U1	0.25
+1p: Can 27/USA 181			

Call	Location	Hrs	kW

1460kHz

WFMH	Cullman, AL	U2	5/0.5
WPNX	Phenix City, AL	U2	5/1
KDON	Salinas, CA	U3	5
KYSN	Colorado Spgs, CO	U2	1/0.5
WPDQ	Jacksonville, FL	U2	5
WKAM	Goshen, IN	U2	1/0.5
KSO	Des Moines, IA	U2	5
WXOK	Baton Rouge, LA	U2	5/1
WEMD	Easton, MD	U4	1/0.5
WBET	Brockton, MA	U2	5/1
WPON	Pontiac, MI	U2	1/0.5
KDMA	Montevideo, MN	U2	1
KENO	Las Vegas, NV	U3	5/1
WOKO	Albany, NY	U2	5
WAXC	Rochester, NY	U2	5
WBNS	Columbus, OH	U2	5/1
WPVL	Painesville, OH	U4	1/0.5
WCMB	Harrisburg, PA	U2	5
WBCU	Union, SC	U2	1
WACO	Waco, TX	U2	1
WPRW	Manassas, VA	U4	5
WRAD	Radford, VA	U2	5/0.5
KMWX	Yakima, WA	U2	5
CJOY	Guelph, ON	U4	10/5
CKRB	St-Georges-de-Beauce, QU	U2	10/5
+1p: Can 1/USA 40			

1470kHz

KNDE	Sacramento, CA	U4	5/1
WRGA	Rome, GA	U2	5
WMBD	Peoria, IL	U4	5
KWSL	Sioux City, IA	U4	5
KARE	Atchison, KS	U3	1
KLCL	Lake Charles, LA	U2	5
WLAM	Lewiston, ME	U3	5
WKMF	Flint, MI	U4	5/1
WNAU	New Albany, MS	U2	0.5
WTKO	Ithaca, NY	U2	1/0.5
WBIG	Greensboro, NC	U2	5
WOHO	Toledo, OH	U4	1
WSAN	Allentown, PA	U2	5
WFAR	Farrell, PA	U2	1/0.5
WVOL	Berry Hill, TN	U4	5/1
KRBC	Abilene, TX	U2	5/1
KELA	Centralia, WA	U1	5/1
KSEM	Moses Lake, WA	U4	5/1
KWIV	Douglas, WY	U1	1/0.5
CJVB	Vancouver, BC	U4	10
CFRW	Winnipeg, MB	U3	10
CHOW	Welland, ON	U4	10/2.5
CKBG	Bagotville, QU	U3	1
CFOX	Montreal, QU	U3	50
+1p: Can 1/USA 49			

1480kHz

WABB	Mobile, AL	U2	5
KRED	Eureka, CA	U1	5/1
KYOS	Merced, CA	U2	5
KWIZ	Santa Ana, CA	U4	5/1
WRDW	Augusta, GA	U2	5
WGSB	Geneva, IL	U4	1/0.5
WTHI	Terre Haute, IN	U4	5/1
WRSW	Warsaw, IN	U4	1/0.5
KBEA	Mission, KS	U4	1/0.5
KLEO	Wichita, KS	U4	5/1
WSAR	Fall River, MA	U4	5
KAUS	Austin, MN	U4	1
KGCX	Sidney, MT	U3	5
KLMS	Lincoln, NE	U4	1
KWEW	Hobbs, NM	U2	5/1
WJIT	New York, NY	U4	5
WAME	Charlotte, NC	U4	5
WHBC	Canton, OH	U2	5
WCIN	Cincinnati, OH	U5	5/0.5
WDAS	Philadelphia, PA	U4	5/1
WISL	Shamokin, PA	U2	1
KBOX	Dallas, TX	U4	5/1
KLVL	Pasadena, TX	U2	1/0.5
WBBL	Richmond, VA	ST4	5
WLEE	Richmond, VA	ST4	5
WISM	Madison, WI	U4	5

Call	Location	Hrs	kW
CHRD	Drummondville, QU	U4	10
+1p: Can 3/USA 44			

1490kHz

CJPR	Blairmore, AB	U1	1/0.25
CFWB	Campbell River, BC	U1	1/0.25
CKGO	Hope, BC	U1	0.25
CHPG	Prince George, BC	U1	0.25
VOHF	Harmon Field, NF	U1	0.25
CKMV	Grand Falls, NB	U1	1/0.25
CKEN	Kentville, NS	U3	1/0.5
CFRC	Kingston, ON	U1	0.1
CHYM	Kitchener, ON	U4	10/5
CKLR	L'Annonciation, QU	U1	1/0.25
CKBM	Montmagny, QU	U1	1/0.25
CJMC	St-Anne-des-Monts, QU	U1	1/0.25
CJSN	Shaunavon, SA	U1	1/0.25
+1p: Can 12/USA 179			

1500kHz

KROQ	Burbank, CA	U4	10/1
KXRX	San José, CA	U4	10/5
WTOP	Washington, DC	U4	50
WKIZ	Key West, FL	U3	0.25
WDEE	Detroit, MI	U4	50/5
KSTP	St. Paul, MN	U2	50
WURL	Winston-Salem, NC	D6	10/1
CKAY	Duncan, BC	U4	5/1
+1p: USA 31			

1510kHz

KDKB	Mesa, AZ	D1	10
KSOM	Ontario, CA	U4	10/1
KDKO	Littleton, CA	U4	1/5
WNLC	New London, CT	U4	10/5
WMEX	Boston, MA	U4	50/5
WRAN	Dover, NJ	U4	10/0.5
WLAC	Nashville, TN	U2	50
KGA	Spokane, WA	U2	50
WAUK	Waukesha, WI	D3	10
CKOT	Tillsonburg, ON	D3	10
CJRS	Sherbrooke, QU	U4	10
+1p: Can 1/USA 38			

1520kHz

KACY	Port Hueneme, CA	U4	50/1
WSVL	Shelbyville, IN	U4	1/0.25
KXKW	Lafayette, LA	U6	10/0.5
WKJR	Muskegon Hts, MI	D3	10
KOLM	Rochester, MN	D1	10
KMPL	Sikeston, MO	U6	5/0.5
WKBW	Buffalo, NY	U3	50
WGOR	Toledo, OH	U4	1
KOMA	Oklahoma Cy, OK	U2	50
KYXI	Oregon Cy, OR	U4	50/10
+1p: USA 34			

1530kHz

KFBK	Sacramento, CA	U3	50
*WDJZ	Bridgeport, CT	D3	10
*WIAD	Jacksonville, FL	D3	50
WTTI	Dalton, GA	D6	10
WPNO	Auburn, ME	D3	10
WRPM	Poplarville, MS	D1	10/1
WCKY	Cincinnati, OH	U2	50
KGBT	Harlingen, TX	U2	50/10
KNIE	Cheyenne, WY	U6	10/1
+1p: Can 2/USA 33			

1540kHz

KASA	Phoenix, AZ	D3	10
KPOL	Los Angeles, CA	U4	50/10
KXEL	Waterloo, IA	U2	50
WPTR	Albany, NY	U3	50
WRCP	Philadelphia, PA	D3	50
KRXV	Fort Worth, TX	U4	50/1
KGBC	Galveston, TX	U2	1/0.25
WRGM	Richmond, VA	D3	10
KZAM	Bellevue, WA	U2	5
CHIN	Toronto, ON	D3	50
+1p: USA 39			

Call	Location	Hrs	kW
1550kHz			
WAAY	Huntsville, AL	U	10/0.5
WMOO	Mobile, AL	D3	50
KUAT	Tucson, AZ	D1	50
KKHI	San Francisco, CA	U4	10
KQXI	Arvada, CO	D1	10
WRHC	Coral Gables, FL	D3	10
WYOU	Tampa, FL	D1	10
WYNX	Smyrna, GA	D1	10
WCVL	Crawfordsville, IN	U2	0.25
WCTW	New Castle, IN	U4	0.25
KOKA	Shreveport, LA	U2	10/0.5
WNTN	Newton, MA	D1	10
WOKJ	Jackson, MS	U4	50/10
KKJO	St. Joseph, MO	U2	5
KOBY	Reno, NV	D3	10
WBSC	Bennettsville, SC	U2	10/5
KRGO	Salt Lake Cy, UT	D1	10
WKBA	Vinton, VA	D3	10
KGAR	Vancouver, WA	U	10/10
CBE	Windsor, ON	U3	10
+1p: Can 5/USA 49			
1560kHz			
KPMC	Bakersfield, CA	U3	10
*	Iowa City, IA	U4	1
WDXR	Paducah, KY	U4	10/1
KQYX	Joplin, MO	D3	10
WTRQ	Warsaw, NC	D4	10
WQXR	New York, NY	U4	50
KWCO	Chikasha, OK	U2	1/0.25
WAGL	Lancaster, SC	D4	10/0.5
KKAA	Aberdeen, SD	U4	5
WWGM	Nashville, TN	D3	10
+1p: USA 42			

Call	Location	Hrs	kW
1570kHz			
CKTA	Taber, AB	U2	5
CHUB	Nanaimo, BC	U4	10
CFOR	Orillia, ON	U1	10/1
CHLO	St. Thomas, ON	U4	10
CKLM	Montreal, QU	U4	50
+1p: USA 69			
1580kHz			
KNIX	Tempe, AZ	D1	50/10
KDAY	Santa Monica, CA	U4	50
WSRF	Ft. Lauderdale, FL	U4	10/5
WCLS	Columbus, GA	U2	1
WAXU	Georgetown, KY	D3	10
KLOU	Lake Charles, LA	U2	1
WPGC	Morningside, MD	D3	10
WSUF	Patchogue, NY	D4	10/5
KRZI	Waco, TX	U4	1/0.5
CBJ	Chicoutimi, QU	U3	10
+1p: USA 56			
1590kHz			
WVNA	Tuscumbia, AL	U2	5/1
KLIV	San José, CA	U2	5
KBBQ	Ventura, CA	U4	5
WQQW	Waterbury, CT	U3	5
WALG	Albany, GA	U4	5/1
KWBG	Boone, IA	U2	1/0.5
KVGB	Great Bend, KS	U2	5
WISZ	Glen Burnie, MD	U4	0.5
WETT	Ocean City, MD	U4	1/0.5
WTVB	Coldwater, MI	U2	5/1
KRAD	Ea. Grand Forks, MN	U2	1
WWUN	Jackson, MS	U2	5/1

Call	Location	Hrs	kW
WSMN	Nashua, NH	U3	5
WAKR	Akron, OH	U2	5
KTIL	Tillamook, OR	U2	5/1
WCBG	Chambersburg, PA	U2	5/1
WEEZ	Chester, PA	U2	1
KYOK	Houston, TX	U2	5
KEND	Lubbock, TX	U4	1
KIKN	Sinton, TX	U4	1/0.5
KUUU	Seattle, WA	U2	5
WSWW	Platteville, WI	U2	1/0.5
+1p: USA 51			
1600kHz			
WXVI	Montgomery, AL	U2	1
KWOW	Pomona, CA	U1	5/0.5
KUBA	Yuba City, CA	U2	5/0.5
KLAK	Lakewood, CO	U2	5
WKEN	Dover, DE	U2	0.5/1
WKWF	Key West, FL	U1	0.5
WPOM	Riviera Bch, FL	U3	1
WRBN	Warner Robins, GA	U1	1/0.5
KCRG	Cedar Rapids, IA	U2	5
WINX	Rockville, MD	U2	1/0.5
WUNR	Brookline, MA	U3	5
WAAM	Ann Arbor, MI	U4	5
WTRU	Muskegon, MI	U2	5
KATZ	St. Louis, MO	U2	5
WWRL	New York, NY	U4	5
WGIV	Charlotte, NC	U2	1/0.5
WFRC	Reidsville, NC	U2	1
KASH	Eugene, OR	U2	5/1
KBOR	Brownsville, TX	U4	1
KOGT	Orange, TX	U2	1
WCWC	Ripon, WI	U4	5
CHNR	Simcoe, ON	U4	10
+1p: Can 1/USA 55			

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CENTRAL AMERICA AND THE CARIBBEAN

Mexico: Stations of 1kW or less not mentioned. See Mexico pages.
Abbreviations particular to this section of the mediumwave tables: Radiodif=Radiodifusora; Sta=Santa; Sto=Santo; Stgo=Santiago; vf=Varying frequency. The sign o indicates that location is not given where company names include the name of the town concerned.

kHz	kW	Call	Country	Station/Location
525	0.25	TICAL	Costa Rica	R. Rumbo, Cartago
535	0.8		Grenada	R. Grenada, Morne Rouge
540	5	HICM	Dom.Rep.	R. ABC, Sto Domingo
	150	XEWA	México	La Voz de la América Latina, San Luís Potosi
	10	YNOW	Nicaragua	R. Corporación, Managua
	10	HOU23	Panamá	R. Guadalupe, David
545	50		Dominica	R. Jumbo, Roseau
550	10	TISBJ	Costa Rica	R. Libertad, San José(vf)
	30	CMAN	Cuba	R. Rebelde, Pinar del Río
	0.5	YSFG	El Salv.	R. Variedades, Sonsonate
	10	TGRV	Guatemala	R. Cinco Sesenta, Guatemala
	5		Jamaica	R. Jamaica, Montego Bay
	2/0.2	XEQW	México	R. La Poderosa, Mérida
	1	HON31	Panamá	R. Aeropuerto, Panamá
	5/1	WPAB	Puerto Rico	R. 550/La Onda Amiga, Ponce
555	2	YNS	Nicaragua	R. Tic Tac, Chinandega
	5	ZIZ	St. Kitts	R. ZIZ, Basseterre
560	1	CMKV	Cuba	R. Rebelde, Stgo.
	5	HIAA	Dom.Rep.	R. Ritmos, Stgo.
	5	YSABC	El Salv.	R. Cadena YSU, San Miguel
	3	HRC2	Honduras	La Consentida, San Pedro Sula
	5		Jamaica	Jamaica Bc Corp, Kingston
	1	HOH2	Panamá	Circuito R.P.C, Colón
570	60	CMHI	Cuba	R. Rebelde, Sta Clara
	5	HIMS	Dom.Rep.	R. Cristal, Sto Domingo
	0.4	TGAP	Guatemala	R. Palmeras, Escuintla
	1	HRT2	Honduras	R. Satélite, Choluteca
	5/0.25	XEBJB	México	R. Fiesta/El Cañonero del Cuadrante, Monterrey
	5/0.25	XEOA		R. Oaxaca, o
	0.25	WVDI	Trinidad and Tobago	AFRTS, Port of Spain (Chaguarmas)
575	12	TIWA	Costa Rica	R. Cucú, San José
580	0.5	CMJM	Cuba	R. Rebelde, Ciego de Avila
	1	CMKF		R. Rebelde, Baracoa
	1	YSDR	El Salv.	R. Cadena Central, Sta Ana.
	10	YSZ		R. Cadena Central, San Salvador
	1	TGY	Guatemala	R. Progreso, Guatemala
	1	HRT3	Honduras	R. Satélite, Siguatepeque
	5		Jamaica	R. Jamaica, Point Galina
	5/0.25	XEMU	México	R. Variedades, Piedras Negras
	5/0.25	XEFI		R. Mexicana, Chihuahua
	10/1	XEAV		R. Guadalajara/Canal 58, Guadalajara
	10	YNEAI	Nicaragua	R. Monumental, Matagalpa
	1	HOH4	Panamá	Circuito R.P.C, David
	5	WKAQ	Puerto Rico	Radio 58, San Juan
590	150	CMW	Cuba	R. Rebelde, San Antonio de las Vegas
	10	HIDV	Dom.Rep.	R. Santa María, La Vega
	5	TGRQ	Guatemala	R. Quiché, Sta Cruz
	1	HRT5	Honduras	R. Satélite, San Pedro Sula
	1	HRRP		Radiópolis, Tegucigalpa
	5	XEPH	México	R. 590/La Pantera de la Juventud, México
	5/0.25	XEFD		XEFD, Río Bravo
	10	YNRD	Nicaragua	R. 590, Managua
	1	HOH3	Panamá	Circuito R.P.C., Chitré
595	10		Dominica	Dominica Bc. Corp, Roseau
600	150	CMKV	Cuba	R. Rebelde, San Germán
600	5	YSNK	El Salv.	R. Exitos, S. Salvador
	5/1	XEBB	México	RCN de Acapulco, o
	5/1	XERJ		XERJ, Mazatlán
	2	XEZ		R. Onda Músical/La Voz de la Península, Mérida
	1	WAEL	Puerto Rico	R. 600, Mayagüez
605	5	TIAV	Costa Rica	R. Para Ti, San José
	1	TGRC	Guatemala	R. Campesina, Pueblo Nueva Tiquisate (vf)
610	0.25	CMHV	Cuba	R. Rebelde, Trinidad
	0.5	TGGA	Guatemala	R. Senorial, Guatemala
	10	HRLP	Honduras	R. América, Tegucigalpa
	5/0.5	XEBX	México	La Voz de la Región Carbonífera, Sabinas
	5/1	XEUF		Sistema R. Michoacán, Uruapan
	5/1	XEEL		R. Progreso, Fresnillo
	10	HOMH	Panamá	Circuito R.P.C, Panamá
	10	VPL6	Trinidad and Tobago	National Bc. Sce, Port of Spain
620	5		Antigua	Antigua Bc. Sce, St. Johns
	1	CMDQ	Cuba	R. Rebelde, Victoria de las Tunas
	10	HISD	Dom.Rep.	R. TV Dominicana, Sto Domingo
	1	TGPQ	Guatemala	R. Occidental, San Cristóbal
	5		Jamaica	Jamaica Bc. Corp, Spur Tree
	5/0.25	XEBU	México	La Nortenita, Chihuahua
	10/5	XENK		R. 620, México
	100	YNM	Nicaragua	Radiodif. Nacional, Managua
625	50	TIXE	Costa Rica	R. Omega, San José
630	50	CMHQ	Cuba	R. Liberación, Sta. Clara
	1	HIAF	Dom.Rep.	R. Monte Cristi, o
	10	YSLN	El Salv.	R. 630, San Salvador
	1	HRMT	Honduras	R. Molino Rojo, San Pedro Sula
	5/0.25	XEACA	México	La ACA de Acapulco, o
	5/0.75	XEFU		La Voz Amiga de la Cuenca de Papalcapan, Cosamaloapan
	10	XEFB		La FB 63, Monterrey
	5	XEID		XEID, Cananea
	1	WWBS	Puerto Rico	La Gran Cadena, Santurce
640	50	CMQ	Cuba	R. Liberación, La Habana
	1	CMDV		R. Liberación, Guantánamo
	20		Guadeloupe	FR3, Arnouville
	10	TGW	Guatemala	La Voz de Guatemala, o
	10	HRVF	Honduras	R. Exitos, Tegucigalpa
	25		Montserrat	R. Antilles, Montserrat
	0.25	HOK	Panamá	Cadena Panameña de Radiodifusion, Colón
650	10	TIBAS	Costa Rica	R. Monumental, San José
	2	CMKU	Cuba	R. Liberación, Stgo
	5	HIAT	Dom.Rep.	R. Universal, Sto Domingo
	10	TGQ	Guatemala	La Voz de Quetzaltenango, o
	1	HRLR	Honduras	R. Comayagua, o
	5	XEZM	México	La Voz del Comercio, Zamora
	1	YNWW	Nicaragua	R. Sport, Granada
	10	HOS22	Panamá	R. Mía, Panamá
655	10	YSS	El Salv.	R. Nacional de El Salvador, San Salvador
660	10	CMHG	Cuba	R. Progreso, Sta Clara
	2	HIAM	Dom.Rep.	R. Quisqueyana, Stgo
	20	4VI	Haiti	R. Lumière, Port-au-Prince
	10/5	XERPM	México	R. Uno, México
	5/0.25	XEYG		XEYG, Matias Romero

kHz	kW	Call	Country	Station/Location
660	10	YNAM	Nicaragua	R. Mi Preferida, Managua
	1	HOF33	Panamá	Circuito R.P.C, Bocas del Toro
	20		Sta. Lucia	R. Sta Lucia, Babonneau
670	50	CMKP	Cuba	R. Progreso, San Pedro de Cacocum
	1	HIJB	Dom.Rep.	R. HIJB, San Pedro de Macoris
	10	TGRT	Guatemala	R. Fabulosa, Guatemala (vf)
	10	HRN	Honduras	La Voz de Honduras, Tegucigalpa
	1	HOLY	Panamá	R. Hogar, Panamá
675	10	TIJC	Costa Rica	R. Sonora, San José (vf)
	15	YNDS	Nicaragua	Unión Radio, Managua
680	1	CMDB	Cuba	R. Progreso, Stgo.
	1	CMHN		R. Progreso, Cienfuegos
	3	HIJX	Dom.Rep.	R. Zamba, Stgo. Rodríguez
	1	TGVP	Guatemala	La Voz de la Verapaz, Cobán
	1	HRN	Honduras	La Voz de Honduras, Siguatepeque
	10/5	XELG	México	L-G, La Grande, León
	5/0.5	XEKQ		El Echo de Tacana, Tapachula
	5/1	XEKC		XEKC, Oaxaca
	0.5	HOF32	Panamá	R. Centenario, Pto Armuelles
	10	WAPA	Puerto Rico	La Voz del Caribe, San Juan
690	50	CMBC	Cuba	R. Progreso, La Habana
	5	HIAW	Dom.Rep.	R. Guarachita, Sto. Domingo
	1	TGVX	Guatemala	R. Tamazulapa, Jutiapa
	50	XETRA	México	Extra Music, Tijuana
	20/5	XEN		R. Mundo, México
	50	XETRN		XETRN, Progreso
	5	HOM83	Panamá	R. Veraguas, Stgo.
695	1	HRV0	Honduras	La Voz de Honduras, Choluteca
700	10	TIHB	Costa Rica	R. Reloj, San José
	5	CMJT	Cuba	R. Progreso, Ciego de Avila
	1	HIDC	Dom.Rep.	R. Mao Mao Valverde
	5	YSQR	El Salv.	Auto Radio, San Salvador
	10	TGHR	Guatemala	R. Mundial, Guatemala(vf)
	1	HRRT	Honduras	R. Exitos, San Pedro Sula
	1	HRKL		R. Reloj, Tegucigalpa
	5		Jamaica	Jamaica Bc. Corp, Montego Bay
	10	YNSC	Nicaragua	R. El Fabuloso Siete, Managua
705	10		St. Vincent	R. St. Vincent, Kingston
710	0.25	CMDV	Cuba	R. Progreso, Guantánamo
	1	YSRS	El Salv.	Circuito YSR, Sonsonate
	1	TGXL	Guatemala	R. Tecun Umán, Quezal tenango
	5	HRRH	Honduras	La Voz de Occidente, Sta Rosa de Copán
	2/1	XEON	México	Nueva XEON/R. Mexicana, Tuxtla Gutiérrez
	5/0.25	XEBL		Su Rancherita Consentida, Culiacán
	1	HOB2	Panamá	Ondas del Caribe, Bocas del Toro
	1/0.5	WKJB	Puerto Rico	R. Reloj, Mayagüez
715	1	HRTV1	Honduras	R. Caribe, Tegucigalpa
720	30	CMGN	Cuba	R. Rebelde, Colón
	5	HIAQ	Dom.Rep.	R. Norte, Stgo
	5	YSRA	El Salv.	Circuito YSR, Sta Ana
	1	YSRU		Circuito YSR, Usulután
	1	TGRO	Guatemala	R. Corona, Morales
720	5	4VIA	Haiti	R. Lumière, Artibonite
	1	HRTV2	Honduras	R. Televisión, San Pedro Sula
	5		Jamaica	R. Jamaica, Kingston
	1	HOB50	Panamá	R. República, Chitré
725	2	TILX	Costa Rica	R. Columbia, San José
	1	YNG	Nicaragua	R. Titania, Chinandega
730	10	CMKJ	Cuba	R. Liberación, Holguín
	5	HIZ	Dom.Rep.	Emisoras Nacionales, Sto Domingo
	10	YSR	El Salv.	Circuito YSR, San Salvador
	10	TGN	Guatemala	R. Cultural, Guatemala
	0.25	HRQQ	Honduras	R. Musical, Comayagua
	100/50	XEX	México	La X/La Voz de México, o
	5	HOR44	Panamá	R. La Existosa, Panamá
	20		Trinidad and Tobago	Trinidad Bc. Co, Port of Spain
740	1	CMAQ	Cuba	R. Liberación, Pinar del Río
	10	CMJL		R. Liberación, Camagüey
	5	YSRM	El Salv.	Circuito YSR, San Miguel
	1	TGHF	Guatemala	R. Tacaná, San Marcos
	5	4VIE	Haiti	R. Lumière, Pignon
	1	HRJS	Honduras	R. Metropolitana, San Pedro Sula
	25		Montserrat	R. Antilles, Montserrat
	10	WIAC	Puerto Rico	R. Internacional, San Juan
745	1	HRXW	Honduras	R. Comayagüela, Tegucigalpa
750	3	TIRA	Costa Rica	R. América Latina, San José (vf)
	5	HIDB	Dom.Rep.	R. Libertad, Stgo
	1	HRDN	Honduras	R. Caribe, La Ceiba
	5		Jamaica	Jamaica Bc. Corp, Point Galina
	50	YNX	Nicaragua	Estación Equis, Managua
760	10	CMCI	Cuba	Reloj Nacional, La Habana (vf)
	5	YSKLB	El Salv.	R. Cadena YSKL, San Miguel
	10	YSKLC		R. Cadena YSKL, Sonsonate(vf)
	1	YSKLF		R. Cadena YSKL, Chalatenango
	10	TGHB	Guatemala	Super Radio, Guatemala
	5	4VU	Haiti	R. Lumière, Les Cayes
	1	HRUV	Honduras	R. Exo del Chamelcón, Pto Cortés
	5/0.5	XEABC	México	R. Internacional, México
	5	XERA		XERA, San Cristóbal las Casa
	5	XEZZ		Zeta, Tonala
	5	HOXO	Panamá	La Voz del Istmo, Panamá
	5	WORA	Puerto Rico	R. Américas, Mayagüez
770	1	CMKB	Cuba	R. Revolución, Las Mercedes
	0.5	HIMD	Dom.Rep.	R. Tamboril, o
	10	YSKL	El Salv.	R. Cadena YSKL, San Salvador
	1	YSKLE		R. Cadena YSKL, Ahuachapán
	3	TGBX	Guatemala	R. Fraternidad, Quezaltenango
	10	HRNQ	Honduras	R. Morazán, Tegucigalpa
	5		Jamaica	R. Jamaica, Spur Tree
	10	HOL47	Panamá	R. Libertad, Chitré
775	4.5	TIW	Costa Rica	Radio Uno, San José
780	10	ZBVI	British Virgin Isl.	R. St. ZBVI, Tortola
	60	CMJN	Cuba	R. Rebelde, Camagüey
	1	HIBO	Dom.Rep.	R. Constanza, o
	10	YSKLA	El Salv.	R. Cadena YSKL, Santa Ana

kHz	kW	Call	Country	Station/Location
780	10	YSKLD		R. Cadena YSKL, Usulután
	5	4VO	Haiti	R. Lumière, Jérémie
	1	HRWN	Honduras	La Voz de Honduras, San Pedro Sula
	3	YNCN	Nicaragua	R. América, Managua
	3	HOB55	Panamá	R. Chiriqui, David
	0.05	AHD	Puerto Rico	AFRTS, Ramey Air Force Base, Aguadilla
790	10	CMCH	Cuba	Cadena Habana/R. Metropolitana, La Habana
	5	HIL	Dom.Rep.	La Voz del Trópico, Sto Domingo (vf)
	5	TGO	Guatemala	La Voz de las Americas, Guatemala
	1	HRMV	Honduras	R. Aguán, Coyoles
	1	HRTX		R. Satélite, Tegucigalpa
	5/0.75	XENT	México	R. La Paz, o
	5/0.4	XERPC		R. Ranchito, Chihuahua
	10/1	XERC		R. Exitos, México
	5/0.2	XEVA		R. Tabasco, Villahermosa
	1	YNW2	Nicaragua	R. Mundial, Matagalpa
	1	YNW4		R. Mundial, Jinotepe
	10	ACA20	Panamá (Canal Zone)	AFRTS, Southern Command Network, Ft Clayton
800	5	TIRH	Costa Rica	R. Centro, San José (vf)
	10	YSAX	El Salv.	La Voz Panamericana, San Salvador
	1	HRMD	Honduras	R. Yoro, o
	150	XEROK	México	R. Ochenta, Cd Juárez
	500	PJB	Neth. Ant.	Trans World Radio, Bonaire
	10	YNO	Nicaragua	R. Amor, Managua
805	2	YNBC	Nicaragua	R. Ondas Segovianas, Estelí
810	1	ZNS3	Bahamas	R. 8-10, Freeport, Grand Bahama
	1	CMJE	Cuba	R. Progreso, Camagüey
	1	YSFA	El Salv.	R. Lorenzana, San Vicente
	1	TGFP	Guatemala	R. Tikal, Flores Petén
	3	HRBT	Honduras	R. Valle, Choluteca
	5	XEUX	México	XEUX, Tuxpan
	5/0.25	XERSV		R. Variedades, Cd Obregón
	50	XEFW		Voz E Imagen de Tampico, Tampico
	2	HOG	Panamá	R. Latina, Panamá
	25	WKVM	Puerto Rico	American Colonial Bc. Corp, San Juan
820	1	CNDT	Cuba	R. Progreso, Bayamo
	10	CMCA		R. Metropolitana, La Habana
	5	HIAZ	Dom.Rep.	R. Santiago, Stgo
	1	YSKT	El Salv.	R. Cadena Central, San Salvador
	5	TGTO	Guatemala	R. Internacional, Guatemala (vf)
	1	HRXS	Honduras	R. Sula, San Pedro Sula
825	5	TIOS	Costa Rica	R. Titania, San José
	15	YNOL	Nicaragua	R. Ondas de Luz, Managua
	1	HOR56	Panamá	R. Peninsula, Macaracas
830	10	HIJB	Dom.Rep.	R. HIJB, Sto. Domingo
	4	YSPX	El Salv.	R. Pax, San Miguel
	1	TGAV	Guatemala	R. Satélite, Mazatenango
	1	HRSP	Honduras	R. Moderna, Tegucigalpa (vf)
	10/5	XELA	México	Buena Música en México, México
	5	YNMG	Nicaragua	R. Pinares, Ocotal
834	20		Belize	R. Belize, o
840	50	CMH	Cuba	R. Doblevé, Sta Clara
	2	CMKC		R. Revolución, Stgo
	0.5	HIAB	Dom.Rep.	R. Isabel de Torres, Pto Plata
	5	YSF	El Salv.	R. Vanguardia, San Salvador
	0.35	TGSM	Guatemala	La Voz de San Marcos, o
	10	4VEF	Haiti	R. St. 4VEH, Cap Haitien
840	1	HRGO	Honduras	R. Portena, Pto Cortés
	1	HRVY		R. Televisión, Choluteca
	10	HOL80	Panamá	R. Libertad, Panamá
	0.25	WXEW	Puerto Rico	WXEW, Yabucoa
	10		Sta. Lucia	R. Caribbean, Castries
850	1	TIUCR	Costa Rica	R. Universidad, San Pedro Montes de Oca
	1	CMDC	Cuba	R. Revolución, Holguín
	3	TGX	Guatemala	R. Ciro's, Guatemala
	10	HRBS	Honduras	R. San Pedro, San Pedro Sula
	1	HRVZ		R. Televisión, La Ceiba
	5	XEM	México	La M Moderna, Chihuahua
	100/50	XETQ		XETQ, Orizaba
	1	PJC2	Neth. Ant.	R. Curom, Willemstad, Curacao
	10	YNAV	Nicaragua	R. Continental, Managua
	0.5	WABA	Puerto Rico	R. WABA, Aguadilla
860	1	CMJY	Cuba	R. Cadena Agramonte, Ciego de Avila
	50	HILR	Dom.Rep.	R. Clarín, Sto Domingo
	1	YSRC	El Salv.	R. Tecana, Sta Ana
	10	HRU	Honduras	R. Centro, Tegucigalpa
	5	XEMO	México	Community Radio for San Diego, Tijuana
	45/25	XEUN		R. Universidad, México
	5/2	XENL		R. Recuerdo, Monterrey
	10	HOL55	Panamá	R. Reforma, Chitré
870	10	CMDN	Cuba	R. Rebelde, Guantanamo (vf)
	1	CMBL		R. Internacional, La Habana
	1	YSAR	El Salv.	R 10, San Salvador
	1	HROG	Honduras	R. Actualidad, Villanueva-Cortés
	1	HOHO	Panamá	R. Musical, Panamá
	5	WHOA	Puerto Rico	R. Capital, Hato Rey
875	1	TIGPH	Costa Rica	R. Monumental, Liberia
880	10	CMAF	Cuba	R. Progreso, Pinar del Rio
	1	HIOR	Dom.Rep.	R. Sta Cruz de Mao, Valverde
	0.5	YSCD	El Salv.	R. Oromontique, Stgo de Maria
	10	TGJ	Guatemala	R. Nuevo Mundo, Guatemala
	1.5	4VAA	Haiti	R. Nationale, Port-au-Prince (vf)
	1	HRXV	Honduras	R. Caribe, San Pedro Sula
	10	XETZ	México	Canal 88/R. Felicitad, Tequila
	5	XEPNK		XEPNK, Los Mochis
	5	YNRE	Nicaragua	R. Exito, Managua
	0.25	HOB51	Panamá	La Fabulosa de Colón, Colón
885	1	ZJB	Montserrat	ZJB Radio, Plymouth
890	0.25	CMHD	Cuba	R. Musical Nacional, Sta Clara
	0.25	CMDZ		R. Musical Nacional, Stgo
	5	HIPJ	Dom.Rep.	R. Continental, Sto Domingo
	1	YSLA	El Salv.	R. Musical, Sta Ana
	10	TGHU	Guatemala	R. Escuintla, o
	1		Honduras	R. Nacional, Tegucigalpa
	10	HOL81	Panamá	R. Guaymi, David
895	1	4VB	Haiti	R. Artibonite, Gonaives
900	10		Barbados	Caribbean Bc. Corp, Bridgetown
	5	TIHF	Costa Rica	Estación X, San José
	1	CMJV	Cuba	R. Liberación, Ciego de Avila
	1	HIBN	Dom.Rep.	R. Pto Plata, o
	1	TGMA	Guatemala	R. Amatique, Pto. Barrios
	1	HRZV	Honduras	R. La Fabulosa, San Pedro Sula
	250	XEW	México	La Voz de la América Latina, México

kHz	kW	Call	Country	Station/Location
900	50/5	XEWB		La Voz de la América Latina, Veracruz
	5	YNRT	Nicaragua	R. Tiempo, Managua
	5	HOHA	Panamá	La Voz del Pueblo, Panamá
905	1	YSQJ	El Salv.	Radiópolis, San Salvador
910	1		Belize	R. Belize, Punta Gorda
	5	CMFA	Cuba	Cadena Agramonte, Camaguey (vf)
	0.5	HIDE	Dom.Rep.	R. Tiempo, San Francisco de Macorís
	1	TGKL	Guatemala	R. Emperador, Guatemala (vf)
	10	4VRMN	Haiti	R. Nouveau Monde, Port-au-Prince
	10	HRVS	Honduras	R. Católica, Tegucigalpa
	1	HOL84		La Voz del Tuira, La Palma
	5/0.5	WPRP	Puerto Rico	R. Ponce, o
920	1		Belize	R. Belize, Belmopan
	0.25	CMKH	Cuba	R. Musical Nacional, Guantánamo
	5	HIBA	Dom.Rep.	R. Popular, Sto Domingo
	0.2	TGRS	Guatemala	R. Sur, Escuintla
	5/0.25	XEVV	México	R. Espectáculo, Chiapa de Corzo
	5/1	XEBM		La Ranchería, San Luís Potosí
	5/1	XEBH		La Pantera/R.9-20, Hermosillo
	10	YNW	Nicaragua	R. Mundial, Managua
	1	HOS56	Panamá	R. Mía, Los Santos
925	1	TICM	Costa Rica	R. Juvenil, San José
930	1		Belize	R. Belize, Corozal
	1	CMGL	Cuba	R. Musical Nacional, Matanzas
	0.25	CMAG		R. Musical Nacional, Consolación del Sur
	5	HICK	Dom.Rep.	Ondas del Yaque, Stgo
	1	YSW	El Salv.	R. Cadena YSU, Sta Ana
	1	TGJL	Guatemala	R. Imperial, San Pedro Carcha
	0.25	4VJS	Haiti	R. Varieté, Gonaives
	3	HRZE	Honduras	R. Cortés, Pto Cortés
	1	HRKW		R. El Patio, La Ceiba
	5/1	XEU	México	R. Núcleo Oro, Veracruz
	200		Montserrat	R. Antilles, Montserrat (vf)
	0.5	WEKO	Puerto Rico	R. Eco, Cabo Rojo
940	1	CMHP	Cuba	R. Doblevé, Cienfuegos
	2.5	YSTG	El Salv.	R. Sonora, San Salvador
	5	TGTL	Guatemala	La Voz del Hogar, Guatemala
	150/50	XEQ	México	La Q de México, o
	1	HOX	Panamá	R. Tevedós, Panamá
	10	WIPR	Puerto Rico	La Emisora del Pueblo, Hato Rey
945	5	HRYW	Honduras	R. Panamericana, Tegucigalpa
950	2	TIECO	Costa Rica	R. Eco, San José
	10	CMBF	Cuba	R. Musical Nacional, La Habana
	1	HIG	Dom.Rep.	R. Fiesta, Sto Domingo
	1	YSHG	El Salv.	R. Minuto, San Miguel
	1	TGAF	Guatemala	R. Indiana, Mazatenango
	5	HRC2	Honduras	Cadena de Oro, San Pedro Sula
	25/5	XEGM	México	R. 95, Tijuana
	3	YNRM	Nicaragua	R. Matagalpa, o
953		CM..	Cuba	R. Progreso, Guantánamo
955	1	HOB33	Panamá	R. Cultura, Concepción
960	1	CMHB	Cuba	R. Progreso Reloj N Nacional, Sancti-Spiritus
	1	HIF	Dom.Rep.	La Voz del Atlántico, Pto Plata (vf)
	0.25	YSTW	El Salv.	R. Centro, Sonsonate
	1	TGRU	Guatemala	R. Utatlan, Sta. Cruz del Quiche
	0.7	4VCD	Haiti	R. Carillon, Port-au-Prince (vf)
960	2/1	XEK	México	XEK, Nuevo Laredo
	10	PJA6	Neth.Ant.	R. Victoria, Oranjestad, Aruba
965	20	YNLU	Nicaragua	R. Managua, o
	3	HOF	Panamá	Onda Popular, Panamá
970	5/1	WSTX	American Virgin Isl.	Virgin Islands Bc. Corp, Christiansted, St. Croix
	1	YSMS	El Salv.	R. Centroamericana, San Salvador
	10	TGAX	Guatemala	R. Continental, Guatemala
	1	HRCU	Honduras	R. Copán, Sta Rosa de Copán
	10/5	XEJ	México	R. Méxicana, Cd Juárez (vf)
	10/5	XEDF		R. Tres, México
	5/0.4	XEVT		XEVT, Villahermosa
	5/0.25	XECJ		XECJ, Apatzingan
975	10	TIRS	Costa Rica	R. Centroamericana, San José
980	5	CMCK	Cuba	El Periódico del Aire, La Habana
	0.25	CMDJ		R. Revolución Guantánamo
	1	HISA	Dom.Rep.	R. Cibao, Stgo
	1	YSAN	El Salv.	La Voz de Los Ausoles, Ahuachapán
	1	YSTGB		R. Sonora, Zacatecoluca
	1	YSTGC		R. Sonora, San Miguel
	0.5	TGMQ	Guatemala	R. Retama, San Marcos
	5	HRTL	Honduras	R. Tic Tac, Tegucigalpa
	5/0.5	XENR	México	La Emisora Grande, Nueva Rosita
	5	XELC		XELC, La Piedad
	10/1	XETU		R. Tampico, o
	5	XEQO		R. Romance, Cosamaloapan
	10	YNE	Nicaragua	R. Hits, Managua
	1	HOS56	Panamá	R. Mía, David
990	1	CMHT	Cuba	R. Sancti Spiritus, o
	5	YSTA	El Salv.	La Exquisita, San Salvador
	0.8	TGAL	Guatemala	La Voz de la Perla de Oriente, Chiquimula
	0.3	4VCPS	Haiti	R. Cacique, Port-au-Prince
	5	XECL	México	R. Mundo, Mexicali
	50	XET		La T de Monterrey, o
	1	HOR59	Panamá	R. Impacto, Panamá
	1	WPRA	Puerto Rico	R. Mayagüez, o
1000	1	WVWI	American Virg. Isl.	R. 1000, Charlotte Amalie, St. Thomas
	10	TIMIL	Costa Rica	R. Mil, San José
	0.25	CMAP	Cuba	R. Guamá, Guane
	1	HIHG	Dom.Rep.	R. Belér, Dajabón
	1	TGAH	Guatemala	R. Mil, Guatemala
	1	HRLC	Honduras	R. Continental, San Pedro Sula
	10	XEOY	México	R. Mil, México
	10	YNTS	Nicaragua	R. Mil, Managua
1005	1	HRBT	Honduras	R. Norte, San Pedro Sula
1010	0.25	CMAS	Cuba	R. Guamá, Pinar del Río
	1	CMKN		R. Musical Nacional, Holguín
	10	HIJP	Dom.Rep.	R. Comercial, Sto. Domingo
	1	TGRX	Guatemala	R. Miramundo, Zacapa
	1	HRMH	Honduras	La Voz del Junco, Sta Barbara
	5/0.1	XEVK	México	R. Mil Diez, Torreón
	10/5	XEHL		La Fabulosa HL, Guadalajara
	5/0.25	XEWS		R. Fiesta, Culiacán
	1	PJC7	Neth.Ant.	R. Hoyer, Willemstad, Curacao
	1	YNW3	Nicaragua	R. Mundial, Estelí
1015	10	YSC	El Salv.	R. Internacional, San Salvador
	1	HOU44	Panamá	R. Reloj, Panamá

kHz	kW	Call	Country	Station/Location
1020	1	CMAC	Cuba	R. Guama, San Cristóbal
	1	TGLM	Guatemala	R. Frontera, Pajapita
	1	HRCA	Honduras	R. Mil, San Pedro Sula
	3	YNVOZ	Nicaragua	R. Reloj, Managua
	1	HOF2	Panamá	Onda Popular, Colón
1025	2	TIAC	Costa Rica	R. Fides, San José
	2	HOU	Panamá	La Voz del Barú, David
1030	5	HIDL	Dom.Rep.	R. Novedades, La Vega
	10	TGUX	Guatemala	R. Panamericana, Villa Victoria (vf)
	1	HRXE	Honduras	R. Mil Treinta, Juticalpa
	1	HRYF		R. Ticante, Ocotepeque
	10/5	XEQR	México	R. Centro, México
	10	WOSO	Puerto Rico	WOSO, San Juan
1035	10	4VEC	Haiti	R. 4VEH, Cap Haitien
	10	YNCW	Nicaragua	R. Occidental, Chinandega
	1.5	HOS21	Panamá	R. Unión, Panamá
1040	0.25	CMBN	Cuba	R. Caribe, Nueva Gerona
	1	HION	Dom.Rep.	R. Central, Sto Domingo
	1	TGJP	Guatemala	R. Oriental, Jalapa
	1	HRVH	Honduras	R. Esteromil, Tegucigalpa
	0.05	ACE	Puerto Rico	AFRTS, Ft. Brooke, San José
1045	1	HOJ2	Panamá	Ondas del Canajagua, Las Tablas
1050	1	TIGHP	Costa Rica	R. Monumental, San Isidro de Puntarenas
	1	HICB	Dom.Rep.	La Voz de la Hispanola, Stgo
	10	YSU	El Salv.	R. Cadena YSU, San Salvador
	10	YSUA		R. Cadena YSU, Ahuachapán
	1	YSUC		R. Cadena YSU, Usulitán
	1	YSUS		R. Cadena YSU, Sonsonate
	5	TGSL	Guatemala	La Voz de los Cuchamatanes, Huehuetenango
	1	HRBT	Honduras	R. Norte, San Pedro Sula
	10/1	XED	México	R. Internacional/La Gran D, Mexicali
	150	XEG		R. Melodía Monterrey
	2	YNLL	Nicaragua	R. Masaya, o (vf)
	1	WCGB	Puerto Rico	R. Iniciativa, Juana Díaz
1059	10	CMKG	Cuba	R. Revolución, Baracoa
1060	5	CMBQ	Cuba	R. Enciclopedia, La Habana
	1	HIRV	Dom.Rep.	Radiomar, San Pedro de Macorís
	1	HIJB		R. HIJB, Barahona
		TGLR	Guatemala	R. Favorita, Guatemala
	1.5	HRXN	Honduras	R. Ceiba, La Ceiba
	5	YNKW	Nicaragua	R. Cristal, Managua
	1	HPM21	Panamá	R. Musical 76, Panamá
1070	1	HIBI	Dom.Rep.	HIBI Radio, San Francisco de Macorís
	5	TGD	Guatemala	La Voz de Occidente, Quezaltenango
	1	HRXM	Honduras	R. Meridiano, Choluteca
	1	HRID		R. Miramar, Tela
	1	HRQL		R. Siguatepeque, Comayagua
	5/0.5	XESP	México	R. Juventud, San Pedro Tiaquepaque
	2	YNRPS	Nicaragua	R. Granada, o
	0.5	WMIA	Puerto Rico	R. Arecibo, o
1075	5	TIFC	Costa Rica	Faro del Caribe, San José
1080	0.5	HIMC	Dom.Rep.	R. Programas Quisqueya, Sto Domingo
	1	YSEM	El Salv.	R. 1080, S. Salvador
	1	TGLU	Guatemala	R. Novedad, Zacapa
	1	4VA	Haiti	La Voix de la Revolution Duvaliériste, Port-au-Prince
1080	1	HRVA	Honduras	R. Tiempo, San Pedro Sula
	1	HRUW		R. City, Tegucigalpa
	1	HOJ23	Panamá	R. Tic Tac, Panamá
	0.25	WLEY	Puerto Rico	R. Ley, Cayey
1085		HROD	Honduras	R. Aeropuerto, San Pedro Sula
1090		WRRA	American Virg. Isl.	Frederickste
	0.5	CMJB	Cuba	R. Camagüey, o
	3	HIJM	Dom.Rep.	R. Amistad, Stgo
	10	YSMG	El Salv.	La Voz del Espino, Ahuachapán
	10	TGZ	Guatemala	R. Cadena Popular, Guatemala
	50	XEPRS	México	Tge Big Country, Rosalito
	5	YNRMA	Nicaragua	R. Musún, Matagalpa
	10	HOL82	Panamá	R. Urraca, Stgo
	0.25	WRSG	Puerto Rico	R. San Germán, o
1100	10	ZDK	Antigua	Greenville Radio, St. Johns
	1	TIRN	Costa Rica	R. Columbia, San Isidro de El General
	1	CMHU	Cuba	R. Ciudad del Mar, Cienfuegos
	1	HIHD	Dom.Rep.	R. Oriente, San Pedro de Macorís (vf)
	5	HIPS		R. Nagua, o
	1	YSRF	El Salv.	R. Femenina, San Salvador
		TGSR	Guatemala	R. Superior, Quezaltenango
	3	YNQ	Nicaragua	La Voz de la Victoria/ Emisora Lider, Managua
	5		Panamá	R. Mil, Panamá
1110	0.5	HIJJ	Dom.Rep.	R. Jarabacoa, o (vf)
	1	TGMK	Guatemala	R. Marinala, Sta Lucia
	1	4VWB	Haiti	R. Citadelle, Cap Haitien
	10	HRPL	Honduras	R. Progreso, El Progreso
	5	HRYL		R. Fiesta, Tegucigalpa
	50/10	XERED	México	R. Cadena Nacional/ R. Red, México
	5/1	XELEO		La Rancherita Consentida, León
	0.25	WVJP	Puerto Rico	R. Caguas, o
1115	2	YNP	Nicaragua	R. Circuito, León
1120	5	TISRHB	Costa Rica	R. Ellas/R. Capital, San José
	1	CMDL	Cuba	R. Angúlo, Holguín (vf)
	5	HICN	Dom.Rep.	R. Antillas, Sto Domingo
	1	YSLR	El Salv.	R. La Romántica, San Salvador
	0.5	TGC	Guatemala	R. Poderosa, Guatemala
	2.5	HRD4	Honduras	R. Oriental, Danlí
	1	HOM21	Panamá	R. Continente, Panamá(vf)
1125	1	HOF47	Panamá	Circuito RPC, Patiño Darien
1130	1	TIGHP	Costa Rica	R. Monumental, San Carlos
	1	CMHA	Cuba	Onda Músical, Sta Clara
	1	HIRL	Dom.Rep.	R. Exitos, Stgo
	1	YSG	El Salv.	R. Chaparrastique, San Miguel
	1	HRRO	Honduras	R. Universal, Tegucigalpa
	5			R. Mambi, o
	10/0.1	XEQO	México	La Divertida, Chihuahua
	10	XEZL		R. Juventud, Jalapa
	10	YNRC	Nicaragua	R. Católica de Nicaragua, Managua
	1	HOJ	Panamá	R. Provincias, Chitré (vf)
1135	1	TGVR	Guatemala	La Voz de la Costa Sur, Retalhuleu
1140	0.25	CMJK	Cuba	R. Camaguey, o
	10	YST	El Salv.	R. El Mundo, San Salvador
	5	XEXF	México	R. Bajío, León
	10/0.35	XEMR		La Nueva MR, Monterrey

kHz	kW	Call	Country	Station/Location
1140	1	YNAV	Nicaragua	R. Continental, Matagalpa
	1	HOB49	Panamá	R. Juvenil, Panamá
	10	WQII	Puerto Rico	Once Q, Guaynabo
1145	5	HRQN	Honduras	La Voz del Atlántico, Pto Cortés (vf)
1146	1	4VAB	Haiti	R. Caraibes, Port-au-Prince
1150	0.25	CMDO	Cuba	R. Banes, o
	1	HIAS	Dom.Rep.	Onda Músical, Sto Domingo
	10	TGPR	Guatemala	R. Reloj, Guatemala
	1	HRYN	Honduras	R. La Fabulosa, Tegucigalpa
	1	HRGF		R. Paraiso, El Paraiso (vf)
	10	XEJP	México	R. Variedades, México
	5/0.3	XESO		R. Mexicana, Cd Obregón
1155	1	YSCF	El Salv.	Ondas Orientales, San Miguel
1160	2	TICA	Costa Rica	R. Columbia, El Roble
	0.25	CMAD	Cuba	R. Artemisa, o
	0.25			Trinidad
	5	HIBG	Dom.Rep.	Radiolandia, Stgo
	2	YSMM	El Salv.	R. Libertad, San Salvador
	1	TGRI	Guatemala	R. Izabel, Pto Barrios
	0.5	HRTZ	Honduras	R. Cristal, Tegucigalpa
	25			R. Swan, San Pedro Sula
	3	YNH	Nicaragua	R. Cosigüina, Managua
	1	WBQN	Puerto Rico	R. Borinquen, Barceloneta
1165	10		Antigua	Caribbean R. Lighthouse, St. Johns
1170	5	TGRL	Guatemala	R. Landivar, Quezaltenango
	50	XEQV	México	XEQV, Arcelia
	5	XERT		Su Estación Amiga/ R. Hits, Reynosa
	0.3	YNUW	Nicaragua	R. Darío, León
	0.25	WLEO	Puerto Rico	R. Leo, Ponce
1172	10	HRVW	Honduras	La Voz Centro-america, San Pedro Sula
1175	1	TIQ	Costa Rica	R. Casino, Pto Limón
	0.5	YSCB	El Salv.	La Voz del Pacifico, Sonsonate
1180		CMEN	Cuba	R. Reloj Nacional, Isla de Pinos
	10	HIBE	Dom.Rep.	R. Mil, Sto Domingo
	2	YSVE	El Salv.	La Voz Evangélica de América, San Salvador
	10	TGT	Guatemala	R. Sonora, Guatemala(vf)
1	10	HOC20	Panamá	Ondas Chiricanas, David
	0.5	YNITP	Nicaragua	R. 11 de Julio, Managua
1190	0.5	CMJP	Cuba	R. Surcos, Ciego de Avila
	1.5	HIVP	Dom.Rep.	R. Cumbre, Villa Tapia
	0.15	4V..	Haiti	La Voix d'Avé Maria, Jérémie
	50/10	XEWK	México	La Voz de la América Latina, Guadalajara
	2	YNCX	Nicaragua	R. Santa María, Nandaime
	10/5	WBMJ	Puerto Rico	R. Rock, San Juan
1195	1	HIMR	Dom.Rep.	R. Monte Río, Axua
1197			Honduras	La Voz Centroamerica, San Pedro Sula
1200	14	TIBB	Costa Rica	R. BB, San José
	2	CMKL	Cuba	R. Reloj Nacional, Stgo
	1	HIBS	Dom.Rep.	R. 23, San Pedro de Macorís
	1	YSDL	El Salv.	R. Latina, San Salvador
	1	TGRJ	Guatemala	R. Jutiapa, o
	1	HRZW	Honduras	R. Suprema, Tegucigalpa
	0.05	NRR	Puerto Rico	AFRTS, Roosevelt Roads
	0.05	NAU		AFRTS, Ft Allen
1205	1		Cayman Isl.	R. Cayman, George Town
1210	0.25	CMJX	Cuba	R. Morón, o (vf)
	1	CMKD		R. Reloj Nacional, Holguín (vf)
	5	HICJ	Dom.Rep.	R. Merengue, San Francisco de Macorís
	0.5	YSCG	El Salv.	R. La Paz, Zacatecoluca
	1	TGMX	Guatemala	R. Rumbos, Guatemala
	5	4VDS	Haiti	R. Progrés, Port-au-Prince
	4	HOE91	Panamá	R. Diez, Panamá
	1	WHOY	Puerto Rico	R. Hoy, Salinas
1220	5	TIPJ	Costa Rica	R. Nueva Victoria, San Francisco de Heredia
	5	CMGY	Cuba	R. Veintiseis, Périco
	10	HIN	Dom.Rep.	R. HIN, Sto Domingo
	1	YSNB	El Salv.	R. Recuerdos, San Salvador
	0.5	TGMT	Guatemala	R. Luminaria, Antigua
	1	HRQO	Honduras	La Voz de la Costa, San Pedro Sula
	1	HRTS		R. Excelsior, San Pedro Sula
	100	XEB	México	R. Cuatro, México
	1	HOK36	Panamá	R. Poderosa, Aguadulce
1230	0.25	CMGM	Cuba	R. Veintiseis, Jagüey Grande
	1	HIJB	Dom.Rep.	R. Ideal, Moca
	0.1	TGAT	Guatemala	R. Atlántida, Pto Barrios
	10	HRZC	Honduras	R. Monumental, Tegucigalpa
	0.5	HRQL		Centro Radial Hondureña, Siguatepeque
	0.25	PJL3	Neth.Ant.	R. Caribe, Willemstad
	1	YNCN	Nicaragua	R. Central, Chinandega
	1/0.25	WNIK	Puerto Rico	R. Unica, Arecibo
1240	1	ZNS2	Bahamas	Voice of the New Provice, Nassau
	1	TILM	Costa Rica	R. Columbia, Nicoya
	0.15	CMGW	Cuba	R. Veintiseis, Matanzas
	0.25	CMKE		R. Revolución, Victoria de las Tunas
	3	HIAU	Dom.Rep.	La Voz de la Libertad, Pto Plata (vf)
	1	HICV		R. Barahona, o
	5	TGK	Guatemala	R. Sensación, Guatemala
	1	HRRZ2	Honduras	R. Juticalpa, o
	1	YNSV	Nicaragua	R. El Mundo, Managua
	1	HOM56	Panamá	R. Reloj de Chiriqui, David
	1/0.25	WALO	Puerto Rico	R. Humacao, o
1245		HO..	Panamá	Onda Tropical, Chitré
1246	0.2	4VYM	Haiti	R. Dif. Haitienne, Port-au-Prince (vf)
1250	0.25	CMKA	Cuba	R. Reloj Nacional, Guantánamo
	0.25	CMHS		Dobleve, Caibarien
	1	HIBC	Dom.Rep.	La Voz del Progreso, San Francisco de Macorís
	3	YSA	El Salv.	R. Teatro, San Salvador
	0.5	TGL	Guatemala	R. Victoria, Mazatenango
	10	HRQ	Honduras	R. Suyapa/La Carinosa, San Pedro Sula
	2	HRIC		R. Latina, El Paraiso
	1	HRLV		R. Colonial, Tegucigalpa
	5/1	XEDK	México	R. Melodía/Super Novelas, Guadalajara
	3	YNCC	Nicaragua	R. Rumbos, Rivas
	1	HO..	Panamá	R. BB, Panamá
1260	1	TIRE	Costa Rica	R. Emmaus, San Vito de Coto Brus
	0.25	CMHL	Cuba	Doblevé, Sancti Spiritus

kHz	kW	Call	Country	Station/Location
1260	1	CMAX		R. Reloj Nacional, Consolación del Norte
	0.25	CMDE		R. Reloj Nacional, Bayamo
	1	HIT	Dom.Rep.	R. Visión, Sto Domingo
	1	TGPA	Guatemala	R. Monumental, Antigua
	10/1	XEL	México	R. Capital, México
	5/0.5	XESIN		XESIN, Culiacán
	2	YNABC	Nicaragua	R. Gueguense, Managua
	1	HOL60	Panamá	R. Exito, Stgo
	1	WISO	Puerto Rico	Emis WISO, Ponce
1265	50		St. Kitts	R. Paradise, Basseterre
1270	1	CMJG	Cuba	R. Reloj Nacional, Camagüey (vf)
	1	HISD	Dom.Rep.	R. TV Dominicana, Stgo
	1	HITA		R. Ambiente, Bani
	0.5	YSQZ	El Salv.	R. 1270, San Miguel
	1	TGCQ	Guatemala	R. Exclusiva, Villa Victoria
	1	HRYT	Honduras	R. Estrella de Oro, San Pedro Sula
	5/0.5	XEAX	México	R. Actualidades, Oaxaca
	5/0.5	XEXD		R. Sensación/Canal 145, Atlixco
	1.25	PJA8	Neth.Ant	R. Antiliana, St. Nicolaas, Aruba
	3	YNWX	Nicaragua	R. Atenas, León
	0.5	HOJ22	Panamá	R. Femenina, Panamá
1280	1	TIJJH	Costa Rica	R. Alajuela, o
	1	CMHM	Cuba	R. Reloj Nacional, Sta Clara
	0.25	CMDP		R. Reloj Nacional, Victoria de las Tunas
	1	YSV	El Salv.	R. Comercial, Sta Ana
	0.7	TGAJ	Guatemala	R. Tropicana, Escuintla
	10	4VPH	Haiti	R. Métropole, Port-au-Prince
	1	HRXA	Honduras	R. Choluteca, o
	5/0.5	XEAW	México	La Estación de la Música Inovidable, Monterrey
	5/0.25	XELK		Onda Juvenil, Cacatecas
	0.25	HOU80	Panamá	La Voz del Vigia, Aguadulce
		HO.		R. Femenina, Panamá
	5/1	WCMN	Puerto Rico	R. Centro, Arecibo
1285	1	YNBC	Nicaragua	R. Cima, Sto Tomas, Chontales
1290	1	CMKS	Cuba	R. Guantánamo, o
	0.5	HIVD	Dom.Rep.	R. Jánico, o
	1	HIVM		R. Bonao, o
	3	YSMA	El Salv.	R. Chalatenango, o
	0.5	TGTU	Guatemala	R. Nacional, Totonicapán
	1	HRLH	Honduras	R. Cultura, Tegucigalpa
	10/1	XEDA	México	R. Trece, México
	1	YNOK	Nicaragua	R. Satélite, Juigalpa
	1	HOS23	Panamá	R. Guadalupe, Panamá
1295	3	YNOO	Nicaragua	R. Plaza, Matagalpa
1300	1	TILC	Costa Rica	R. Tricolor, Cartago
	1	CMJQ	Cuba	R. Nuevitas, o (vf)
	0.5	CMJD		R. Músical Nacional, Ciego de Avila
	1	HIKQ	Dom.Rep.	R. Radio, Sto Domingo
	2	YSLV	El Salv.	La Versátil, San Salvador
	1	HRXX	Honduras	R. Lima, La Lima
	5/0.1	XEHV	México	R. Tropical, Martines de la Torre
	10	PJD2	Neth.Ant.	PJD2 Radio, Philipsburg
	1	WTIL	Puerto Rico	R. WTIL, Mayagüey
1307	0.25	CMHK	Cuba	R. Reloj Nacional, Cruces
1310	0.25	CMDD	Cuba	R. Revolución, Bayamo
	1	HISD	Dom.Rep.	R. TV Dominicana, El Seibo
	1	HISD		R. TV Dominicana, Pedernales
1310	0.5	HIHM		R. Real, La Vega
	1	TGAN	Guatemala	La Voz de los Altos, Quezal tenango
	1	HRQG	Honduras	R. Cadena, Tegucigalpa
	50		Martinique	FR3, Fort-de-France
	10/0.25	XEBP	México	R. Alegría, Torreón
	3	YNKS	Nicaragua	R. San Cristobal, Chinandega
1312	0.25	CMJW	Cuba	R. Santa Cruz, Sta Cruz del Sur
1320	1	TILG	Costa Rica	R. Columbia, Limón
	0.25	CMAL	Cuba	R. Reloj, Pinar del Río
	0.25	CMKQ		R. Canoa, San Luis
	1	HIAV	Dom.Rep.	R. Baní, o
	10/1	XECMQ	México	R. Sensación, México
	5/0.5	XERJ		R. Mazatlán, o
	0.5	YNEL	Nicaragua	R. Maravilla, Managua
	5/1	WUNO	Puerto Rico	R. Uno, Hato Rey
1325	1	PJA10	Neth.Ant.	The Voice of Aruba, Oranjestad, Aruba
1330	0.5	CMJS	Cuba	R. Reloj Nacional, Ciego de Avila
	5	HIFA	Dom.Rep.	La Voz de las Fuerzas Armadas, Moca
	5	YSHQ	El Salv.	R. Progreso, San Salvador
	10	TGMU	Guatemala	Unión Radio, Guatemala
	10	4VJCD	Haiti	R. Haiti-Inter, Port-au-Prince
	5/1	XEUAS	México	R. Universidad, Culiacán
1340	0.25	WSTA	American Virg. Isl.	R. St. WSTA, Charlotte Amalie, St. Thomas
	1	TIHR	Costa Rica	R. Sideral, San Ramón
	0.25	CMGU	Cuba	R. Reloj Nacional, Colón (vf)
	1			AFRTS, Guantánamo Bay
	1	HIBZ	Dom.Rep.	R. Centro, San Juan de la Maguana
	0.25	HIMP		R. Ocoa, San José de Ocoa
	1	YSXW	El Salv.	R. Novedades, San Miguel
	1	TGME	Guatemala	R. Quezada Educativa, Quezada
	10	HRHG	Honduras	R. El Mundo, San Pedro Sula
	5	HON26	Panamá	R. Cristal, David
	0.25	WUNA	Puerto Rico	R. Una, Aguadilla
1350	0.25	CMKY	Cuba	R. Pto Padre, o
	1	HIXZ	Dom.Rep.	R. Listín, Sto Domingo
	1	TG..	Guatemala	R. Monja Blanca, Cobán
	1	HRCO	Honduras	R. City, Tegucigalpa
	5/0.5	XETB	México	R. Laguna, Torreón
	2	YNRM	Nicaragua	R. Alma Latina, Estelí
	0.5	WEGA	Puerto Rico	R. Las Vegas, Vega Baja
1360	1	TIMAR	Costa Rica	R. Monumental, Limón
	0.25	CMBG	Cuba	R. Popular, La Habana
	1	HISD	Dom.Rep.	R. TV Dominicana, Monte Cristi
	1	HISD		R. TV Dominicana, La Vega
	1	HIMG		R. Rutas Músical, La Romana
	10	TGLK	Guatemala	R. Tic-Tac, Villa Victoria
	1	TGEB		R. Momostenango Educativa, Momostenango
	1.5	HRTR	Honduras	R. Danlí, Cd. Danlí
	5	XETP	México	XETP, Cd. Valles
	1	YNGF	Nicaragua	Ondas del Sur, Curazo
		HO.	Panamá	R. Reloj de Caracol, Panamá
	1/0.5	WCHQ	Puerto Rico	R. Camuy, o
1370	1	CMKW	Cuba	R. Siboney, Stgo
	1	HISD	Dom.Rep.	R. TV Dominicana, Barahona
	0.5	YSMQ	El Salv.	La Señal del 70, La Libertad

kHz	kW	Call	Country	Station/Location
1370	0.5	TGAC	Guatemala	La Voz de Colomba, Colomba
	10/5	XE..	México	Cd. Obregón
		XEHF		R. Variedades, Nogales
	5/0.25	XEPA		Su Favorita/R. Trece Sesenta, Puebla
	10	XEMON		XEMON, Monterrey
	1	YNJD	Nicaragua	R. Fronteras, Boaco
	1	YN.		R. Universal, Pto Cabezas
	1	HOO38	Panamá	R. Colosal, David
	5/1	WIVV	Puerto Rico	Calvary Baptist Mission, Viequez Isl.
1380	1	TIRC	Costa Rica	R. Columbia, Liberia
	5	HISC	Dom.Rep.	R. Nacional, Stgo.
	5	HIFA		La Voz de las Fuerzas Armadas, Sto Domingo
	1	HRST	Honduras	R. Primero de Mayo, San Pedro Sula
	5	XECO	México	R. Eco, México
	1	HOJ60	Panamá	La Voz de Panamá, o
1385	1	4VS	Haiti	R. Port-au-Prince, o
1390	0.25	CMKX	Cuba	R. Bayamo, o (vf)
	1	HISD	Dom.Rep.	R. TV Dominicana, Pto Plata
	1.5	YSJI	El Salv.	La Voz del Litoral, Usulitán
	5	TGYC	Guatemala	R. Istmania, Guatemala
	10	HRVC	Honduras	La Voz Evangélica, Tegucigalpa
	5/0.2	XETY	México	R. Tecomán, o
	5/0.1	XEXO		X-E Exito, Cd. Mante
	5/1	XETL		La Voz de las Huastecas, Tuxpam
	5	XESX		XESX, Tuxtla Gutiérrez
	2/0.35	XEJI		XEJI, Tehuantepec
	2.5	YNRP	Nicaragua	R. Mar, Pto. Cabezas
	1	HOL	Panamá	R. Atlantico, Colón
	1/0.5	WISA	Puerto Rico	R. Noroeste, Isabela
1400	5	TICJ	Costa Rica	R. Sinai, San Isidro de El General
	0.25	CMJI	Cuba	R. Florida, o
	1	HIAL	Dom.Rep.	Ondas del Valle, La Vega
	1	HISD		R. TV Dominicana, Pto Plata
	1	TGIZ	Guatemala	R. Caribe, Pto Barrios
	1	HRPI	Honduras	El Eco de Honduras, San Pedro Sula
	1	PJB2	Neth.Ant.	The Voice of Bonaire, o
	1	HOHS	Panamá	Ondas Centrales, Stgo de Veraguas
	1/0.25	WVOZ	Puerto Rico	R. Voz, Carolina
1410	1	HIAE	Dom.Rep.	R. Tricolor, Sto Domingo
	0.5	HIRM		R. Sol, Higüey
	0.5	TGGH	Guatemala	R. Xelaju, Quezaltenango
	5/1	XEBS	México	R. Sinfonola, México
	5/0.25	XEKB		Canal 14-10, Atemajac
	0.3	YNMS	Nicaragua	R. Ondas Populares, León
	1	HORS	Panamá	Super Radio, Panamá
1420	1	TIMMC	Costa Rica	R. Nicoyana, Nicoya
	0.25	CMDX	Cuba	La Voz de Baracoa, o
	0.25	HIED	Dom.Rep.	R. Oro, Cotuí
	4		Guadeloupe	FR3, Citerne
	1	TGRP	Guatemala	R. Dial Catorce, Guatemala
	1	HRGZ	Honduras	La Voz de Atlántida, La Ceiba
	1	HROW		R. Trópico, Tela
	2	XEXX	México	R. Rancherita, Tijuana
	5/0.5	XEF		Mexicorama/R. Fiesta, Juárez
	10/0.2	XEWE		R. Irapuato, o
	5/2.5	XEEW		XEEW, Matamoros
	1	ACB20	Panamá	AFRTS, Southern Command Netw, Ft Davis
	1	WEUC	Puerto Rico	R. Universidad Católica, Ponce
1430	0.25	CMKZ	Cuba	R. Baragua, Palma Soriano
1430	3	HIVG	Dom.Rep.	R. La Vega, o
	1	HIGA		R. Guarocuya, Barahona
	0.5	TGAG	Guatemala	La Voz de Huehuetenango, o
	1	4VGM	Haiti	Magloire Bc. Circuit, Port-au-Prince (vf)
	5/0.5	XEOX	México	CX 14-30, Cd Obregón
	2/0.15	XEWD		R. Favorita, Cd. Miguel Alemán
	5/0.25	XECA		XECA, Ixtepec
	5/0.5	WNEL	Puerto Rico	R. Tiempo, Caguas
1435	1	PJA5	Neth. Ant.	R. Kelkboom, Oranjestad, Aruba (rep on 1400)
1440	1		Costa Rica	R. San Carlos, Cd Quesada
	1	HIAD	Dom.Rep.	R. San Juan, San Juan de la Maguana
	0.5	HILF		R. Cayacoa, Higüey
	1	HIFS		R. Bahía, Nagua
	0.5	HIAK		Mi Radio, Sto Domingo
	0.5	TGMS	Guatemala	La Voz Mazatenango, o
	1	HRIC	Honduras	La Radio del 70, Pto Cortés
	1	HRZT		R. Titania, Tegucigalpa
	5/1	XEEA	México	XEFA, Cd Camargo
	5	XE..		Parras
	1	YNOW	Nicaragua	R. Corporación, León
	1	YNTP		Tierra Pinolera, Ocotal
1445	1	PJF1	Neth.Ant.	Voice of Saba, Bottom, Saba
1450	0.5	HIAR	Dom.Rep.	R. San Cristóbal, 0
	0.25	HIAC		R. Salcedo, o
	1	TGLG	Guatemala	R. Variedades, Guatemala
	1	HRRD	Honduras	R. San Isidro, La Ceiba
	10	YNDN	Nicaragua	R. Vanguardia, Managua
	1/0.25	WCPR	Puerto Rico	R. Coamo, o
1455	0.25	HOD42	Panamá	La Voz de Almirante, o
1460	1	TIL3	Costa Rica	R. Columbia, Cd Quesada
	0.25	CMCG	Cuba	R. Mariano, o
	0.5	HIAN	Dom.Rep.	R. Maguá, Hato Mayor
	1	TGRM	Guatemala	R. Petén, Sta Barbara
	1	HROX	Honduras	R. Landia, Comyagua
	10	XELX	México	R. Zitácuaro, o
	4	YNTJ	Nicaragua	R. Eco de las Brumas, Jinotega (vf)
	0.5	WFBA	Puerto Rico	R. San Sebastian, o
	0.5	WCID		R. Cid, Juncos
				AFCN, Camp Gracia, Viequez Islands
1465	5	HIAG	Dom.Rep.	R. Azul, Stgo
	0.1	4VCP	Haiti	La Voix de Nord, Cap Haitien (vf)
1470	0.25	CMGE	Cuba	R. Cd Bandera, Cárdenas
	5	HIAG	Dom.Rep.	R. Azul, Stgo.
	2	YSON	El Salv.	R. Cristal, San Salvador
	1	TGRY	Guatemala	R. Rosa, Chiquimulilla
	5	XEBBC	México	XEBBC, Tijuana
	10/5	XESM		R. Cinco, México
	5	XELOM		XELOM, Loma Bonita
1475	1.5	4VAA	Haiti	La Voix de Peuple, Port-au-Prince
	2	YNAG	Nicaragua	R. Cosigüina, Chinandega
1480	1	TIEEAW	Costa Rica	R. Puntarenas, o
	1	HIAH	Dom.Rep.	R. Uno, Sto Domingo
	1	HROC	Honduras	R. Bahía, Roatán
	5/0.5	XEPR	México	R. Poza Rica, o
	5	WMDD	Puerto Rico	La Voz del Oriente/R. El Conquistador, Fajardo
1490	1	HIKF	Dom.Rep.	R. Azua, o (vf)
	0.25	HIAP		R. Generación, Moca
	1	HIRP		R. Seybo, El Seybo
	0.5	TGCO	Guatemala	La Voz del Trópico, Cotepeque
	3	HOR43	Panamá	R. Exito, Chorrera
	1/0.25	WZBS	Puerto Rico	R. Senorial, Ponce
1500	2	TIL3	Costa Rica	R. Columbia, San Carlos
	2	TIASF		R. Cima, Cd Quesada

kHz	kW	Call	Country	Station/Location
1500	1	YSPL	El Salv.	R. Fides, Usulután
	0.25	4VOC	Haiti	R. Select, Port-au-Prince
	0.2	4VWB		R. Citadelle, Cap Haitien
	1	HROF	Honduras	R. Estero Centro, San Pedro Sula
	20/5	XERH	México	R. Seis, México
	1	PJC9-2	Neth.Ant.	R. Hoyer, Willemstad, Curaçao (vf)
	0.5	YNPT	Nicaragua	R. Minuto, Managua
	1/0.25	WMNT	Puerto Rico	R. Atenas, Manatí
1505	0.5		Anguilla	R. Anguilla, The Valley
1510	10	HIBL	Dom.Rep.	R. Pueblo, Sto Domingo (vf)
	1	TGDX	Guatemala	R. Centroamericana, Guatemala
	5	HOA95	Panamá	R. Equis/La Panamena, Panamá
1515	1	YNCZ	Nicaragua	R. Progreso, León
1520	1	TIJJC	Costa Rica	R. Columbia, Turrialba
	1	CMKT	Cuba	R. Victoria, Victoria de las Tunas
	1	HOR20	Panamá	R. Coclé, Panamá
	10	WRAI	Puerto Rico	R. Quince Veinte, Hato Rey
1530	5	XEUR	México	R. Onda, México
	1/0.25	WUPR	Puerto Rico	R. UPR, Utuado
1535	0.1		St. Vincent	R. St. Vincent, Chateaubelair
1540	20	ZNS1	Bahamas	Voice of the Bahamas, Nassau
	1	TIACA	Costa Rica	R. Lira, San José
	1	HIBD	Dom.Rep.	La Voz de la Romana, La Romana
	1	HIFB		R. El Mundo, Sto Domingo
	10	TGRF	Guatemala	R. Faro Aviateca, Guatemala (vf)
	1	HRMS	Honduras	R. Patria, Tegucigalpa
	1	PJL3	Neth.Ant.	R. Caribe, Willemstad, Curaçao
	1	HOE28	Panamá	R. Reloj, Panamá
1530	0.25	CMDV	Cuba	R. Santiago, o
	5	HIJC	Dom.Rep.	R. Maibá, Stgo
	1	TGCK	Guatemala	R. Sultana de Oriente, Zacapa
1530	5	XENU	México	La Rancherita Contenta, Nuevo Laredo
	10	XEXB		XEXB, Jalapa
	0.25	WKFE	Puerto Rico	R. Café, Yauco
	1.5	VSI	Turk and Caicos Isl.	R. Turk and Caicos, Grand Turk
1555	10		Cayman Isl.	R. Cayman, George Town
1560		TI	Costa Rica	R. Millón, San José
	0.25	CMGB	Cuba	R. Reloj Nacional, Cárdenas
	0.5	HIPZ	Dom.Rep.	R. Pedernales/La Voz de la Frontera, Pedernales
	1	TGRE	Guatemala	R. Modelo, Retalhuleu
	1	HRGT	Honduras	R. Comercial, Tegucigalpa
	5	XESE	México	La Voz de Campeche, Champotón
	10/0.5	XEVIP		VIP Radio, México
	5	YNAC	Nicaragua	Ondas del Xolotlán Managua
	5/0.25	WRSJ	Puerto Rico	R. San Juan, Bayamon
1565	0.25		St. Lucia	R. St. Lucia, Castries
1570	1	HIAJ	Dom. Rep.	R. Turismo, Sto Domingo
	1	HIRJ		R. Juventud, La Romana
	10	TGVE	Guatemala	R. Voz Evangélica de América, Guatemala
	250	XERF	México	XERF, Cd Acuña
	0.5	YNZ	Nicaragua	R. Matiguas, Matagalpa
	0.1	HOE35	Panamá	R. Once, Colón
1580	0.5	HIWJ	Dom.Rep.	R. Samaná, o (vf)
	1	HIPK		R. Neiba, o
	1	TGPY	Guatemala	R. Payaqui, Esquipulas
	50	XEDM	México	La Grande de Sonora, Hermosillo
1590	0.25	CMDF	Cuba	R. Manzanillo, o
	3	HIDA	Dom.Rep.	R. Hit Músical, Stgo
	1	TGXC	Guatemala	R. Triunfadora, Chimaltenango
	10	XEKC	México	XEKC, Mexicali
	10/5	XEVOZ		R. Voz, México
	5	XEACH		R. 15-90, Monterrey
	10	XENMB		XENMB, Valladolid
	1	YNAW	Nicaragua	R. Colinás, Jinotega
	1	WXRF	Puerto Rico	R. Guayama, o
1600	5	HIEG	Dom.Rep.	R. Fémina, Sto Domingo (vf)
	10	TGWC	Guatemala	La Voz de Guatemala, o
	1	WLUZ	Puerto Rico	R. Luz, Santurce

For your notes:

SOUTH AMERICA

Brazilian stations with a power of less than 1kW are not mentioned. Such low-power stations operate on the following frequencies: 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580 and 1590.

Abbreviations particular to this section of the mediumwave tables: Mun=Municipal, nf=nominal frequency, RJ=Rio de Janeiro, Stgo=Santiago, t.s=temporarily suspended (may reopen shortly), vf=varying frequency.

The sign o indicates that location is not given where company names include the name of the town concerned.

kHz	kW	Call	Country	Station/Location
536	5		Falkland Islands	Falkland Isl. Bc. Sce, Stanley
540	25/5	LRA14	Argentina	R. Nacional, Santa Fé
	10/1	ZYD53	Brazil	R. Dif. Fluminense, Niterói, RJ
	1/0.25			R. Birigui, o, SP
	1/0.25	ZYH276		R. Real, Canoas, RS
	5/0.25			R. Santo Angelo, o, RS
	10/1	ZYW44		R. Riviera, Goiânia, GO
	1	CB54	Chile	R. Ignacio Serrano, Melipilla
	1	CD54		R. El Sur de Chile, Valdivia
	10	HJKA	Colombia	Em. Horizonte, Bogotá
	25	HCFA2	Ecuador	R. Tropicana, Guayaquil
	10	YVOV	Venezuela	R. Perijá, Villa del Rosario (nf 800)
	25	YVUR		R. Codesur, San Juan de Manapiare
550	5/0.5	ZYF79	Brazil	R. Cataguases, o, MG
	5	ZYD7		R. Soc. Norte de Minas, Montes Claros, MG
	5/0.5	PRG6		R. Soc. Mantiqueira, Cruzeiro, SP
	5/0.5	ZYS81		R. Estadual do Paraná, Curitiba, PR
	50	HJ..	Colombia	R. Nacional, Medellín (Marinilla)
	10	HCGB1	Ecuador	R. Nal. Espejo, Quito
	10	CW1	Uruguay	R. Colonia, o
	50	YVKE	Venezuela	R. Mundial, Caracas
560	25/5	LRA13	Argentina	R. Nacional, Bahía Blanca
	25/5	LRA16		R. Nacional, La Quiaca
	10/3	LT15		R. del Litoral, Concordia
	25/5	LV1		R. Colón, San Juan
	5/1	ZYA73	Brazil	R. Educ. do Maranhão, São Luis, MA
	5/1	ZYC55		R. Jornal de Itabuna, o, BA
	10/1			R. Novo Mundo, São Paulo, SP
	1/0.5	ZYD4		R. Londrina, o, PR
	5/1	ZYH57		R. São Francisco, Caxias do Sul, RS
	10	HJGS	Colombia	Tr. de la Independencia, Tunja
	50	HCNB2	Ecuador	R. Mambo, Guayaquil
	10		Guyana	Action R, Georgetown
	1	OBZ4L	Peru	La Voz del Oriente, Lima
	5	YVJA	Venezuela	R. Dif. del Ejecutivo del Estado Apure, San Fernando de Apure (vf)
570	5/0.5	ZYF69	Brazil	R. Pampulha, Belo Horizonte, MG
	5/1	ZYE58		R. Dif. de Taubaté, o, SP
	5/0.25	ZYH236		R. Dif. Eldorado Catarinense, Criciuma, SC
	1/0.25	ZYH75		R. Passo Fundo, o, RS
	50	CB57	Chile	R. Agricultura, Santiago
	100	HJND	Colombia	R. Nacional, Bogotá (vf)
	1	HCRM1	Ecuador	R. Musical, Quito
	10	ZP15	Paraguay	La Voz de Amambay, Pedro Juan Caballero (vf)
	1	OAX3K	Peru	R. Progreso, Chimbote
	200	YVLX	Venezuela	R. Rumbos, Villa de Cura
580	10/5	LU20	Argentina	R. Chubut, Trelew
	25/5	LW1		R. Univ. Nal. de Córdoba, o
	10	CP91	Bolivia	R. Panamericana, La Paz
	20/10	ZYB44	Brazil	R. Repórter, Recife, PE
	10/5	ZYD71		R. Relógio, RJ
	5/0.25	ZYR209		R. A Voz Agrícola do Brasil, Piracicaba, SP
	5	ZYH51		R. Nossa Senhora de Fátima, Vacaria, RS
580	10/1	ZYX44		R. Educ. Rural, Campo Grande, MT
	10	HJHG	Colombia	R. Nacional, Cali
	0.5	HCMB2	Ecuador	R. El Tiempo, Guayaquil
	1	CX58	Uruguay	R. Clarín, Montevideo
	10	YVMJ	Venezuela	La Voz de la Fé, Maracaibo
590	25/5	LS4	Argentina	R. Continental, Buenos Aires
	25/5	LU8		R. Bariloche, San Carlos de Bariloche
	25/5	LV12		R. Independencia, Tucumán
	10		Brazil	R. Dif. Roraima, Boa Vista, RR
	20/5	ZYC29		R. Cruzeiro da Bahia, Salvador, BA
	1/0.25	ZYF207		R. Dif. Patrocínio, o, MG
	5/1	ZYE318		R. Ribeirão Prêto, o, SP
	5/0.5	ZYE343		R. Atlântica de Santos, o, SP
	10/1	ZYE352		R. Ouro Verde, Curitiba, PR
	1	CA59	Chile	R. Minería, Antofagasta
	1	CC59		R. Cooperativa, Concepción
	100	HJCR	Colombia	R. Sutatenza, Medellín
	1	HCSP1	Ecuador	R. Fiesta, Quito
	1	OAZ8C	Peru	R. Sideral, Pucallpa
	20	YVKL	Venezuela	R. Continente, Caracas
600	100	ZYH266	Brazil	R Farroupilha, Pôrto Alegre, RS
	50	HJHJ	Colombia	R. Libertad, Barranquilla
	0.25	OAX6S	Peru	R. Cult. Toquepala, Tacna
	10		Surinam	R. Paramaribo, o
	10	YVQB	Venezuela	R. Sucre, Cumaná
605	10	HCRH2	Ecuador	R. Huancavilca, Guayaquil
610	10	CP63	Bolivia	R. San Gabriel, La Paz
	10/1	ZYV29	Brazil	R. Itatiaia, Nova Lima, MG
	1/0.25	ZYE53		R. Liberdade, Guaratingueta, SP
	30	HJKL	Colombia	Em. Nueva Granada, Bogotá
	10	ZP30	Paraguay	La Voz del Chaco Paraguayo, Filadelfia
	5	CX4	Uruguay	R. Rural, Montevideo
	10	YVSE	Venezuela	R. Cristal, Barquisimeto
615	10	HCMJ1	Ecuador	Em. Gran Colombia, Quito
620	25/5	LRA18	Argentina	R. Nacional, Río Turbio
	25/5	LT17		R. Prov. de Misiones, Posadas
	5	LU15		R. Viedma, o
	5/1.5	LV14		R. Joaquín V. González, La Rioja
	10	ZYH35	Brazil	R. Assunção, Fortaleza, CE
	50/10	PRH7		R. Panamericana, São Paulo, SP
	5/0.25	ZYH250		R. Mirador, Rio do Sul, SC
	5/1	PRC3		R. Pelotense, Pelotas, RS
	1/0.25	ZYF2		R. Fronteira do Sul, São Borja, RS
	1	CA62	Chile	R. Norte Verde, Ovalle
	10	CD62		R. Pres. Ibañez, Punta Arenas
	20	HJEL	Colombia	R. Ciudad de Cali, o
	1	OAX2M	Peru	R. Chepén, o
	10	OCY4A		R. Estrella del Sur, Cañete
	10	YVNO	Venezuela	R. Libertad, Cabimas
625	3	HCRF3	Ecuador	R. Nal Fénix, Zaruma
630	25	LS5	Argentina	R. Rivadavia, Buenos Aires
	25/5	LU4		R. Patagonia Argentina, Comodoro Rivadavia
	25/5	LW8		R. San Salvador, o
	10/1	PRJ6	Brazil	R. Dif. de Sergipe, Aracajú, SE

kHz	kW	Call	Country	Station/Location
630	1/0.5	ZYF61		R. Dif. de Uberaba, o, MG
	20/10	ZYD48		R. Em. Metropolitana, RJ, RJ
	10/5	ZYX25		R. Dif. Bom Jesús, Cuiabá, MT
	5/0.25	ZYE227		R. Dif. Prudentina, Pres. Prudente, SP
	5/0.5	ZYE351		R. Curitibana, Curitiba, PR
	5/1	ZYH305		R. Santamarinense, Sta. Maria, RS
	0.1	CA63	Chile	R. Chañaral, o
	1	CB63		R. Instituto de Extensión Musical, Santiago
	0.1	CC63		R. Constitución, o
	1	CD63		R. Los Confines, Angol
	20	HJFD	Colombia	R. Manizales, o
	10	YVKA	Venezuela	R. Nacional, Caracas
	10	YVSL		R. Nacional, San Cristóbal
635	5	HCHA2	Ecuador	Ondas Quevedeñas, Quevedo
640	25/5	LRA24	Argentina	R. Nacional, Río Grande
	1	LU18		R. El Valle, General Roca
	1	LV15		R. Villa Mercedes, o
	10/5	ZYL22	Brazil	R. Cabugí, Natal, RN
	5/1	ZYD40		R. Vitória, o, ES
	1/0.25	ZYE81		R. A Morada do Sol, Araraquara, SP
	1/0.25	ZYE405		R. Auriverde, Londrina, PR
	50/10	ZYH89		R. Dif. Pôrtoalegrense, Pôrto Alegre, RS
	25/5	ZYF65		R. Dif. de Goiânia, o, GO
	1	CA64	Chile	R. Nacional, Iquique
	10	CD64		R. Cautín, Temuco
	10	HJBJ	Colombia	La Voz de Sta Marta, o
	50	HCXY1	Ecuador	R. Nal del Ecuador, Quito
	10	OAZ4K	Peru	R. del Pacífico, Lima
	1	OBX7B		R. Onda Azul, Puno
	10		Surinam	RADIKA (R. Diehaat Kie Awaadj), Paramaribo
	50	YVQO	Venezuela	Ondas Porteñas, Pto La Cruz
645	10	ZP19	Paraguay	R. Caaguazú, Coronel Oviedo
650	5/1	ZYJ29	Brazil	R. Alto Piranhas, Cajazeiras, PB
	1/0.25	ZYE223		R. Andradina, o, SP
	5/0.25	PRD6		R. Dif. de Piracicaba, o, SP
	10	HJJX	Colombia	Em. Monserrate, Bogotá
	5	HCFD4	Ecuador	R. Visión, Manta (vf)
	1	OAX2N	Peru	Ondas del Norte, Trujillo
	1	OAX5R		R. Regionalista, Ica
	30	CX6	Uruguay	SODRE, Montevideo
	50	YVLH	Venezuela	R. Visión Maracay, o
660	5/1	ZYK26	Brazil	R. Dif. de Limoeiro, o, PE
	5/1	ZYD57		R. Soc. de Friburgo, Nova Friburgo, RJ
	5/0.5	ZYE50		R. Cl. de Ribeirão Prêto, o, SP
	5/0.5	ZYE52		R. Tribuna, Santos, SP
	50	CB66	Chile	R. Chilena, Santiago
	10	HJJM	Colombia	R. Uno, Cali
	1.2	HCFF1	Ecuador	R. Jesús del Gran Poder, Quito
	10	HCLG2		R. Carrousel, Guayaquil
	1	ZP26	Paraguay	R. Itá Pirú, Pto. Pres. Stroessner
	10	YVNA	Venezuela	Ondas del los Médanos, Coro
665	0.4	HCFM2	Ecuador	R. Ventanas, o
	1	OCX4L	Peru	R. Chinchaycocha, Junín (nf 590)
670	25/5	LT4	Argentina	R. Dif. Misiones, Posadas
	25/5	LU9		Em. Mar del Plata, o
	10/5	ZYC37	Brazil	R. Cult. de Sergipe, Aracajú, SE
	1/0.5	ZYE220		R. Em. Convenção de Itú, Itú, SP
	10/5	ZYE354		R. Iguaçu, Curitiba, PR
	1/0.25	ZYH87		R. São Gabriel, o, RS
	5/1	ZYF234		R. São Francisco, Anápolis, GO
	10	HJPX	Colombia	R. Sport, Medellín
	1	OBX4A	Peru	R. RBC, Callao
670	100	YVLL	Venezuela	R. Rumbos, Caracas
675	10	HCVP2	Ecuador	Sistema de Em. Atalaya, Guayaquil
680	30	LU12	Argentina	R. Río Gallegos, o
	5	LU17		R. Golfo Nuevo, Pto Madryn
	25/5	LV6		R. Nihuil, Mendoza
	4	CP34	Bolivia	R. Méndez, La Paz
	10/5	ZYF24	Brazil	R. Dif. do Maranhão, São Luis, MA
	10/5	ZYD39		R. Copacabana, São Gonçalo, RJ
	1/0.25	ZYD5		R. Dif. de Catanduva, o, SP
	1/0.25	ZYR69		R. Dif. de Pirajú, o, SP
	50/5	ZYH67		R. Gaúcha, Pôrto Alegre, RS
	5/1	ZYG45		R. Cult. de Campo Grande, o, MT
	10	CC68	Chile	R. Univ. Concepción
	100	HJBU	Colombia	R. Nacional, Zambrano
	5	OAX5E	Peru	R. Independencia, Ica
	1.5	CW27	Uruguay	R. Tabaré, Salto
	10	YVQR	Venezuela	R. Cumaná, o
690	25/5	LRA4	Argentina	R. Nacional, Salta
	25/5	LRA9		R. Nacional, Esquel
	10/5	LU19		R. La Voz del Comahue, Cipolletti
	10	ZYH29	Brazil	R. Dragão do Mar, Fortaleza, CE
	5/0.25	ZYW7		R. Cult. de Ilheus, o, BA
	10/3	PRC7		R. Mineira, Belo Horizonte, MG
	1/0.25	ZYG2		R. Cl. de Guaratingueta, o, SP
	1/0.25	ZYR87		R. Pereira Barreto, o, SP
	1/0.25	ZYR91		R. Brasil, Sta Barbara do Oeste, SP
	1/0.25	ZYE372		R. Dif. Paraná, Londrina, PR
	1/0.25	ZYE381		R. Dif. Ponta Grossa, o, PR
	5/0.5	ZYH63		R. Cl. de Lages, o, SC
	5/0.25	ZYH287		R. Progresso de Ijuí, o, RS
	10	CB69	Chile	R. Santiago, o
	1	CD69		R. Coyhaique, o
	10	HJCZ	Colombia	La Voz de Colombia, Bogotá
	30	HCJB1	Ecuador	La Voz de los Andes, Quito
	5	HCFA4		La Voz de Manabí, Portoviejo
	10	CX8	Uruguay	R. Sarandí, Montevideo
	50	YVMR	Venezuela	R. Barquisimeto, o
695	5	HCRS2	Ecuador	R. Sucre, Guayaquil
700	10/5	ZYG21	Brazil	R. Dif. de Teresina, o, PI
	50	ZYE47		R. Eldorado, São Paulo, SP
	120	HJCX	Colombia	R. Sutatenza, Cali
	10	ZP12	Paraguay	R. Carlos Antonio López, Pilar (vf)
	1	OBZ4H	Peru	R. Aeropuertó, Lima
	10	YVMH	Venezuela	R. Popular, Maracaibo
710	50	LS1	Argentina	R. Cd de Buenos Aires Buenos Aires
	5/1	ZYL22	Brazil	R. Educ. Palmares de Alagôas, Maceió, AL
	10	HJNX	Colombia	R. Super, Medellín
	50	YVKY	Venezuela	R. Capital, Caracas
715	5	HCCB4	Ecuador	La Voz de Portoviejo, o (nf 720)
720	25/5	LV10	Argentina	R. de Cuyo, Mendoza
	100	ZYB85	Brazil	R. Cl. de Pernambuco, Recife, PE
	10/0.5	ZYZ33		R. Dif. Carióca, RJ
	100	ZYH262		R. Guaíba, Pôrto Alegre, RS
	30	HJAN	Colombia	Em. Unidas, Barranquilla
	5	HCIC1	Ecuador	R. Municipal, Quito
	5	YVOE	Venezuela	R. Visión Oriente, Porlamar
725	10	HCMB2	Ecuador	R. Guayaquil, o (nf 730)
	50	PZX26	Surinam	Stichting R. Omroep Suriname, Paramaribo
730	20/3	LRA3	Argentina	R. Nacional, Sta Rosa
	5/1	LW7		R. Felipe Varela, Catamarca
	5			R. Prov. de Sta Cruz, Las Heras

kHz	kW	Call	Country	Station/Location
730	10	CP27	Bolivia	R. La Cruz del Sur, La Paz
	5	CP..		R. Mensaje, Montero
	10/5	ZYB59	Brazil	Em. Rural, Petrolina, PE
	5/1	ZYV53		R. Dif. Minas Gerais, Juiz de Fora, MG
	5/0.25	ZYE80		R. Santos Dumont, Jundiaí, SP
	5/1	ZYE293		R. Dirceu de Marília, o, SP
	5/0.25	ZYE404		R. Marumbí, Campo Largo, PR
	1/0.25	ZYO9		Soc. da R. Tubá, Tubarão, SC
	5/1	ZYH211		R. Planalto, Passo Fundo, RS
	10	CB73	Chile	R. Cooperativa, Valparaíso
	0.25	CD73		R. O'Higgins, Los Angeles
	1	CD73B		R. Aysen, Puerto Aysen
	30	HJCU	Colombia	R. Melodía, Bogotá
	8	ZP7	Paraguay	R. Guaraní, Asunción
	15	CX10	Uruguay	R. Continente, Montevideo
	10	YVMT	Venezuela	R. Universo, Barquisimeto
735	10	HCBG1	Ecuador	R. Melodía, Quito (nf 740)
740	100	ZYC40	Brazil	R. Soc. da Bahia, Salvador, BA
	5/0.5	ZYH95		R. Diário da Manhã, Florianópolis, SC
	5/1	ZYX23		R. Cl. de Dourados, o, MT
	10	HJHB	Colombia	Ecos de Pasto, o
	25	HJNS		R. Guatapurí, Valledupar
	10	OAX6C	Peru	R. Continental, Arequipa
	10	YVNC	Venezuela	R. Maracaibo, o
745	8	HCSE4	Ecuador	R. Libertad, Chone (nf 740)
750	100/10	LRA7	Argentina	R. Nacional, Córdoba
	5/1	ZYK30	Brazil	R. Cult. do Nordeste, Caruarú, PE
	30	HJDK	Colombia	La Voz de Antioquia, Medellín
	10	HCCT2	Ecuador	R. Centenario, Guayaquil
	1	OAX3T	Peru	R. El Mundo, Chimbote
	100	YVKS	Venezuela	R. Caracas, o
760	5/0.25	ZYF32	Brazil	R. Cult. Belo Horizonte, MG
	10/0.5	ZYD41		R. Federal, Niterói, RJ
	1/0.25	ZYT42		R. Nereu Ramos, Blumenau, SC
	1/0.25	ZYH273		R. Princesa de Jacuí, Candelaria, RS
	75	CB76	Chile	R. Cooperativa, Stgo
	30	HJAJ	Colombia	La Voz de Barranquilla, o
	25	HCRQ1	Ecuador	R. Quito, o
	10	8RG	Guyana	R. Demerara, Georgetown
	25	ZP5	Paraguay	R. Encarnación, o
	10	OBZ4X	Peru	R. Mar, Lima
	10	YVQQ	Venezuela	R. Puerto La Cruz, o
770	10/5	ZYC28	Brazil	R. Atalaia de Sergipe, Aracajú, SE
	5/0.5	ZYF41		R. Cl. de Patos, Patos de Minas, MG
	1/0.25	ZYR261		R. Jornal do Povo, Limeira, SP
	30	HJKH	Colombia	R. Tequendama, Bogotá
	5	OAX8M	Peru	La Voz de la Selva, Iquitos
	125	CX12	Uruguay	R. Oriental, Montevideo
	50	YVKK	Venezuela	R. Nacional (R. Metropolitana), Valencia
775	1	HCMP2	Ecuador	R. La Prensa, Guayaquil (nf 770)
780	5	LRA12	Argentina	R. Nacional, Santo Tomé
	5	LU14		R. Prov. de Sta Cruz, Río Gallegos
	25/5	LV8		R. Libertador, Mendoza
	0.25	CP46	Bolivia	R. Universo, La Paz
	0.5	CP108		R. Independencia, Quillacollo
	50/10	ZYB87	Brazil	R. Jornal do Cômercio, Recife, PE
	1/0.25	ZYF224		R. Educ. de Uberlândia, o, MG
	50/10	ZYR56		R. Excelsior, São Paulo, SP
	1/0.5	ZYS80		R. Portavoz de Cianorte, Cianorte, PR
780	1/0.25	ZYH200		R. Dif. de Urussanga, o, SC
	1/0.25	ZYH66		R. Carazinho, o, RS
	1	ZYU71		R. Princesa de Jacuí, Pôrto Alegre, RS
	1	CA78	Chile	R. Libertad, Antofagasta
	2	CB78		R. El Mar, Valparaíso
	10	CD78		R. Sago, Osorno
	30	HJZG	Colombia	La Voz del País, Cali
	0.3	HCRG4	Ecuador	R. Umiña, Manta
	25	ZP70	Paraguay	R. Primero de Marzo, Asunción
	10	OAX4X	Peru	R. Victoria, Lima
	10	YVOD	Venezuela	Ecos del Torbes, San Cristóbal
785	1	HCAA1	Ecuador	R. Noticia, Quito
790	25/5	LRA11	Argentina	R. Nal Comodoro Rivadavia
	50/10	LR6		R. Mitre, Buenos Aires
	10	HJDC	Colombia	R. Junín, Medellín
	10	HJBW		R. Atalaya, Bucaramanga (nf 800)
	5	OAX2I	Peru	CRU, Trujillo
	5	YVKC	Venezuela	R. Dif. Venezuela, Caracas
795	2	HCAA4	Ecuador	La Voz del Valle, Portoviejo
800	0.25	CP25	Bolivia	R. Potosí, o
	100	ZYD2	Brazil	R. Min. da Educação, RJ
	10	ZYH205		R. Univ. de Santa Maria, o, RS
	50/10	ZYF259		R. Min. da Educação, Brasília, DF
	10	HCDE2	Ecuador	R. Bolívar, Guayaquil
	2	OAX3Y	Peru	R. La Selva, Tingo María
	0.5	OAZ4U		R. San Juan, Huaral
	0.5	OBX5B		R. Sur Medio, Ica
	0.35	OBX6A		R. Porteña, Ilo
805	2	HCFV1	Ecuador	Canal Tropical, Quito
810	5/0.25	ZYE422	Brazil	R. Dif. Jundiaiense, Jundiaí, SP
	250	HJCY	Colombia	R. Sutatenza, Bogotá
	50	CX14	Uruguay	R. El Espectador, Montevideo
	10	YVLP	Venezuela	R. Visión 810, Valencia
820	25/3	LRA8	Argentina	R. Nacional, Formosa
	3	LU24		R. Tres Arroyos, o
	1	CP35	Bolivia	R. Altiplano, La Paz
	5/1	ZYK37	Brazil	R. Universitária, Recife, PE
	1/0.25	ZYL8		R. Barbacena, o, MG
	1/0.25	ZYA4		R. Dif. Paraisense, São Sebastião do Paraíso, MG
	1/0.25	ZYD45		R. Princesa do Atlântico, Macaé, RJ
	1/0.25	ZYE61		R. Dif. de Panápolis, o, SP
	5/0.25	ZYE236		R. Aparecida, o, SP
	1/0.25	ZYE431		R. Universal, Santos, SP
	10	ZYE366		R. Cult. de Foz do Iguaçu, o, PR
	1/0.25	ZYH81		R. Alto Taquarí, Estrela, RS
	10/5	ZYF253		R. Jornal de Goiás, Goiânia, GO
	0.25	CA82	Chile	R. Pampa, Pedro de Valdivia
	1	CA82		R. Nacional, La Serena
	1	CC82		R. Almirante Latorre, Talcahuano
	1	CD82		R. Concordia, La Unión
	50	HJED	Colombia	La Voz del Río Cauca, Cali
	1	HCRF4	Ecuador	Canal Manabita, Portoviejo
	10	OAX4O	Peru	R. Libertad, Lima
	1	PZX7	Surinam	R. Apintie, Paramaribo
	1/0.5	CW23	Uruguay	R. Cultural, Salto
	10	YVSH	Venezuela	R. Guayana, Upata
830	25/5	LRA17	Argentina	R. Nacional, Zapala
	10/5	LT8		R. Rosario, o
	25/5	LRA22		R. Nal, San Salvador de Jujuy
	1/0.5	ZYB200	Brazil	Em. de Educação Rural, Caicó, RN
	1/0.5			R. Cult. de Itabirito, Ouro Prêto, MG
	10	HJDM	Colombia	R. Visión, Medellín
	5	HCMU2	Ecuador	R. Reporter, Guayaquil

kHz	kW	Call	Country	Station/Location
330	0.3	HCVT2		R. Atalaya, El Milagro
	0.5	HCRP5		R. Promoción, Riobamba
	1	OAX3S	Peru	R. Casma, o
	50	YVLT	Venezuela	R. Sensación, San Antonio de Los Altos
335	1	HCCE1	Ecuador	R. Punto 83, Quito
	7	ZP6	Paraguay	R. Guiará, Villarrica (nf 840)
340	10/5	LT12	Argentina	R. Gral. Madariaga, Paso de los Libres
	25/5	LU2		R. Bahía Blanca, o
	25/5	ZYD8	Brazil	R. Excelsior da Bahia, Salvador, BA
	50/5	ZYE239		R. Bandeirantes, São Paulo, SP
	1/0.25	ZYE409		R. Tabajara de Londrina, o, PR
	5/0.25	ZYH235		R. Rural, Concórdia, SC
	5/1	ZYH323		R. Cult. de Gravataí, o, RS
	10	CB84	Chile	R. Diego Portales, Valparaíso
	30	HJBI	Colombia	Ondas del Caribe, Santa Marta
	1	HCEM4	Ecuador	R. Costa Azul, Portoviejo
	10	YVMY	Venezuela	R. Juventud, Barquisimeto
345	0.8	HCBA6	Ecuador	R. Ambato, o
350	1/0.25		Brazil	R. Em. Rio São Francisco, Arapiraca, AL
	1/0.25	ZYB6		R. Dif. Formiguense, Formiga, MG
	1/0.25	ZYV71		R. Por Um Mundo Melhor, Governador Valadares, MG
	1/0.25	ZYH4		R. Tupaciguara, o, MG
	1/0.25	ZYE319		R. Cl. de Rio Claro, o, SP
	50	HJKC	Colombia	Em. Nuevo Mundo, Bogotá
	1	HCAJ2	Ecuador	R. Católica, Guayaquil
	50	CX16	Uruguay	R. Carve, Montevideo
	10	YVLD	Venezuela	R. Impacto, Valencia
354	20	OAX4A	Peru	R. Nal del Perú, Lima
355	0.5	HCGB7	Ecuador	R. Nal Espejo, El Puyo
360	100	ZYD68	Brazil	R. Mundial, RJ, RJ
	10	CA86	Chile	Nueva R. El Lua, Chuquicamata
	10	HJEP	Colombia	Voces de Occidente, Buga
	10	HCRG1	Ecuador	R. Visión, Quito
	25	ZP28	Paraguay	La Voz de la Cordillera, Caacupe
	10	YVOL	Venezuela	R. Visión 860, San Cristóbal
365	0.4	HCGS6	Ecuador	R. Pillaro, o
370	100	LRA	Argentina	R. Nal, Buenos Aires
	5/0.25	ZYC30	Brazil	R. Cl. de Itabuna, o, BA
	10	HJLA	Colombia	La Voz del Tolima, Ibagué
	20	HCNY2	Ecuador	R. Cristal, Guayaquil
	1	OBX1F	Peru	CRU, Chiclayo
	5	YVKU	Venezuela	R. Libertador, Caracas
380	100	PRK9	Brazil	R. Inconfidência, Belo Horizonte, MG
	10	HJGE	Colombia	R. Bucaramanga, o
	1	HCRP1	Ecuador	R. Católica, Quito
	50	OBZ4N	Peru	R. Unión, Lima
	10	YVMP	Venezuela	R. Lara, Barquisimeto
390	20/1	LU33	Argentina	Em. Pampeana, Sta Rosa
	25/5	LV11		Em. Stgo del Estero, o
	20/10	ZYK20	Brazil	R. Tamandaré, Recife, PE
	10/5	PRA6		R. Gazeta, São Paulo, SP
	1/0.25	ZYH79		R. Canoinhas, Florianópolis, SC
	5/0.25	ZYH70		R. Cult. de Alegrete, o, RS
	5/0.25	ZYH227		R. Dif. Bento, Gonçalves, o, RS
	1/0.25	ZYH221		R. Cult. Riograndina, Rio Grande, RS
	50/1	ZYF245		R. Planalto, Brasília, DF
	1	CA89	Chile	R. León XIII, Antofagasta
	1	CB89		R. Bulnes, Santiago
	1	CC89		R. Interamericana, Concepción
	1	CD89		R. Polar, Punta Arenas
	10	HJCE	Colombia	La Voz de Bogotá, o
	1	HCEL2	Ecuador	R. Unión, Quevedo
	0.5	HCTL5		Ondas del Chimborazo, Riobamba
890	10	OAX1D	Peru	R. Progreso, Piura
	10/5	CX18	Uruguay	R. Sport, Montevideo
	10	YVLW	Venezuela	R. América, Valencia
900	5	LRA10	Argentina	R. Nal. Ushuaia e Islas Malvinas, Ushuaia
	25/2.5	LT7		R. Prov. de Corrientes, o
	25/5	LV13		R. Granaderos Puntanos, San Luís
	0.25	CP79	Bolivia	La Voz Nacional, Tarija
	0.25	CP125		R. Metropolitana, La Paz
	10	ZYB74	Brazil	R. Nordeste, Natal, RN
	25/10	ZYD73		R. Tamoio, RJ, RJ
	5/0.25	ZYE63		R. A Voz do Sertão, Pres. Prudente, SP
	5/0.25	ZYR242		R. Cult. de Rio Prêto, São José do Rio Prêto, SP
	1/0.25	ZYE96		R. Santana, Ponta Grossa, PR
	1/0.5	ZYH220		R. Progresso, Nôvo Hamburgo, RS
	2.5	ZYH212		R. Aratiba, o, RS
	1	CA90	Chile	R. Univ. Técnica del Estado, Copiapó
	1	CB90		R. Fundación, Valparaíso
	1	CC90		R. Nuble, Chillán
	1	CD90		La Voz de la Costa, Osorno
	10	HJEY	Colombia	La Voz de Cali, o
	3	HCRJ1	Ecuador	R. Gemas, Quito
	2	HCOF4		La Voz de Chone, o
	1	ZP16	Paraguay	R. Pto Pres. Stroessner, o
	10	OBX4X	Peru	R. El Sol, Lima
	0.25	CW17	Uruguay	R. Frontera, Artigas
	10	YVMD	Venezuela	R. Mara, Maracaibo
905	1	HCBO2	Ecuador	R. Espectáculo, Guayaquil (nf 910)
	5	HCEV5		R. Splendit, Cuenca (nf 900)
910	50	LRA23	Argentina	R. Nacional, San Juan
	25/5	LR5		R. Excelsior, Buenos Aires
	5/1	ZYB48	Brazil	R. Liberdade de Caruarú, o, PE
	25	HJDO	Colombia	La Voz del Río Grande, Medellín
	1	HCGE5	Ecuador	R. Mundial, Riobamba
	10	YVRQ	Venezuela	R. Aeropuerto, Maiquetía (vf)
914	1	PZX..	Surinam	RANI (R. Nickerie), Nieuw Nickerie
915	1	HCRU3	Ecuador	Ondas Orenses, Machala
920	1/0.25	ZYB76	Brazil	R. Brejuí, Currais Novos, RN
	10	HJAE	Colombia	Em. Fuentes, Cartagena (vf)
	10	HCCM1	Ecuador	R. Colón, Quito
	100	ZP1	Paraguay	R. Nacional, Asunción
	5	OBX1G	Peru	R. Heróica, Chiclayo
	1	OBZ4J		R. Bolognesi ("R. Popular") Huancayo
	10	YVQX	Venezuela	R. Nueva Esparta, Porlamar
925	1	HCVL2	Ecuador	La Voz Liberal, Guayaquil
930	0.25	CP11	Bolivia	R. Amauta, La Paz
	0.25	CP112		R. Frontera, Yacuiba
	1/0.25		Brazil	R. Barbalha, o, CE
	10/5	ZYM20		R. Liberdade de Sergipe, Aracajú, SE
	5	PRJ3		R. Araguari, o, MG
	1/0.25	ZYR38		R. Cl. de Itapira, o, SP
	1/0.25	ZYR68		R. Santa Fé, Santa Fé do Sul, SP
	2.5	ZYE330		R. Cult. de São Vicente, o, SP
	5/1	ZYE410		R. Cult. do Paraná, Curitiba, PR
	1/0.25	ZYS31		R. Cl. de Rôlandia, o, PR
	5/0.5	ZYH72		Em. Reunidas R. Cult., Caxias do Sul, RS
	10	CA93	Chile	R. Nacional, Antofagasta
	10	CB93		R. Nuevo Mundo, Santiago
	10	HJCS	Colombia	R. Continental, Bogotá
	0.3	HCIM1	Ecuador	La Voz de Imbabura, Ibarra
	10	OAX4E	Peru	R. Central, Lima
	30	CX20	Uruguay	R. Monte Carlo, Montevideo

kHz	kW	Call	Country	Station/Location
930	10	YVLJ	Venezuela	R. Maracay, o
935	0.6	HCVE5	Ecuador	R. Colta, o
940	100	ZYD66	Brazil	R. Jornal do Brasil, RJ, RJ
	10	HJGB	Colombia	R. Eco, Cali
	30	HJTL		La Voz del Progreso, Cúcuta
	0.5	HCMT1	Ecuador	R. Kronos, Quito
	1	OBX1C	Peru	R. Presidente, Paita
	1	OBX7L		R. Wilcamayo, Sicuani
	10	YVNW	Venezuela	R. Funto Fijo, o
945	10	HCDE2	Ecuador	Radifesa ("Punto 945"), Guayaquil
950	100	LR3	Argentina	R. Belgrano, Buenos Aires
	5/1	ZYB45	Brazil	R. Educ. do Nordeste, Sobral, CE
	1/0.25	ZYB39		R. Planalto, Carpina, PE
	10/5	ZYF55		R. Atalaia, Belo Horizonte, MG
	15	HJFN	Colombia	La Voz del Café, Pereira
	100	YVKG	Venezuela	R. Visión Caracas, Caracas
955	0.25	HCKC2	Ecuador	La Voz de los Ríos, Babahoyo
	1.5	HCJX6		La Voz del Agoyán, Baños
960	20/5	LRA6	Argentina	R. Nacional, Mendoza
	20/3	LT16		R. Pres. Roque Sáenz Peña, o
	0.25	CP32	Bolivia	R. Santa Cruz, o
	0.5	CP93		R. Kollasuyo, Potosí
	1	CP124		R. Atlántida, Oruro
	10	ZYO4	Brazil	R. Dif. de Alagôas, Maceió, AL
	50/5	ZYE241		R. Dif. de São Paulo, o, SP
	1/0.25	ZYE73		R. Dif. de Maringá, o, PR
	5/1	ZYH303		R. Imembuí, Sta Maria, RS
	10	CB96	Chile	R. Carrera, Santiago
	1	CD96		R. Nielol, Temuco
	120	HJHN	Colombia	R. Sutatenza, Magangué
	1	HCNC1	Ecuador	R. Cosmopolita, Quito
	20	OAX4D	Peru	R. Panamericana, Lima
	1	CW96	Uruguay	R. Yi, Durazno
	10	YVSR	Venezuela	R. San Sebastian, San Cristóbal
	10	YVRB		R. Monagas, Maturín
965	5	HCOT1	Ecuador	R. Zaracay, Sto Domingo de los Colorados
970	25/5	LV2	Argentina	R. General Paz, Córdoba
	10/5	ZYC33	Brazil	R. Soc. Feira de Santana, o, BA
	1/0.25	ZYF78		R.Soc. Caratinga, o, MG
	1/0.25	ZYF44		R. São João del Rei, o, MG
	1/0.25	ZYJ6		R. Dif. de São João da Boa Vista, o, SP
	5/1	ZYE54		R. Alvorada de Londrina, o, PR
	1/0.25	ZYH231		R. Araguaia de Brusque, Brusque, SC
	20/1	ZYH216		R. Pampa, Pôrto Alegre
	1/0.25	ZYE283		R. Dif. de Itapetininga, o, SP
	1	CB97	Chile	R. Agricultura, Valparaíso
	1	CC97		R. Lautaro, Talca
	1	CD97		R. Patagonia, Coyhaique
	1	CD97		R. Austral, Valdivia
	0.25	CA97		R. Calama, o
	10	HJCI	Colombia	La Voz de la Victor, Bogotá
	50	HJME		R. Península, Maicao
	3	HCMB1	Ecuador	R. Continente, Ibarra
	1	HCSA5		R. Unión, Cuenca
	1	ZP9	Paraguay	R. Comuneros, Asunción
	5/1.5	CX22	Uruguay	R. Universal, Montevideo
	10	YVLR	Venezuela	R. Central, Maracay
	10	YVSD		R. Turismo, Valera
975	10	HCAW2	Ecuador	Ondas del Pacífico, Guayaquil
980	100	ZYD70	Brazil	R. Nacional, RJ
	50/600	PRL8		R. Nal de Brasilia, o, DF
	1	CA98	Chile	R. Univ. del Norte, Arica
	20	HJES	Colombia	R. El Sol, Cali
	2	HCJ15	Ecuador	R. El Prado, Riobamba
	0.4	OAX2F	Peru	R. La Hora, Trujillo
	1	OAX5T		R. La Voz de Huamanga, Ayacucho
980	10	YVTB	Venezuela	Exitos Novecientos Ochenta, Maracaibo
	10	YVQM		La Voz del Tigre, El Tigre
985	1	HCAU5	Ecuador	R. América, Cuenca
	5	OBX4J	Peru	R. Programas del Perú, Lima
990	50	LR4	Argentina	R. Splendid, Buenos Aires
	5/1	ZYB43	Brazil	R. Educ. Rural, Mossoró, RN
	1/0.25	ZYX7		R. Teófilo Otoni, o, MG
	30	HJDB	Colombia	La Voz de Medellín, o
	3	HCGH1	Ecuador	R. Dif. Tárqui, Quito
	1	OBZ4R	Peru	R. Dif. del Centro del País, Jauja
	10			R. Bicolor, Tacna
	10	YVRT	Venezuela	R. Tropical, Caracas
	5	YVTA		R. Tricolor, Barquisimeto
995	5	HCEW2	Ecuador	R. Suceso, Guayaquil (nf 1170)
1000	0.25	CP28	Bolivia	R. Cochabamba, o
	5	CP43		R. Piraí, Santa Cruz
	100	PRB9	Brazil	R. Record, São Paulo, SP
	10	HJAR	Colombia	La Voz de Cartagena, o
	1	HCRV5	Ecuador	R. Visión, Cuenca (nf 1015)
	10	YVNM	Venezuela	R. Mil, Morón
	10	YVOA		R. Táchira, San Cristóbal
1006	10	HJBN	Colombia	La Voz de Galeras, Pasto (nf 1010)
1010	20/5	LV16	Argentina	R. Río Cuarto, o
	10/5	ZYN23	Brazil	R. Bahia, Salvador, BA
	5/0.5	PRB3		R. Soc. de Juiz de Fora, o, MG
	1/0.25	ZYR68		R. Piratininga de Barretos, Barretos, SP
	1/0.25	ZYE78		R. Educ. de Limeira, o, SP
	1/0.25	ZYR43		R. Cl. de Votorantim, o, SP
	5/1	ZYE44		R. Celinauta, Pato Branco, PR
	1/0.25	ZYU103		União R. Cl, Esteio, RS
	1/0.25	ZYH336		R. Esmeralda, Vacaria, RS
	0.25	CA101	Chile	R. Coya, Maria Elena
	10	CB101		R. Pres. Balmaceda, Stgo
	1	CD101		R. Llanquihue, Pto Montt
	10	HJCC	Colombia	Em. Mil Veinte, Bogotá
	10	HJIX		R. Yarima, Barrancabermeja
	15	HJJR		R. Colosal, Neiva
	10	HJOP		R. Sutatenza, Baranquilla
	3	HCGO3	Ecuador	R. Canal Estelar, Santa Rosa
	3	HCRC4		R. Cenit, Manta
	5	HCRM6		R. Variedades, Ambato
	50	OAX4U	Peru	R. América, Lima
	30	CX24	Uruguay	R. El Tiempo, Montevideo
	10	YVPC	Venezuela	R. Aragua, Cagua
	10	YVQE		R. Bolívar, Cd Bolívar
1015	1	HCRS6	Ecuador	R. Surcos, Guaranda
1020	10/5	LT10	Argentina	R. Univ. Nal. del Litoral, Santa Fé
	5/10	LU21		R. Golfo San Jorge, Caleta Olivia
	20	CP24	Bolivia	R. Illimani, La Paz
	5/1	ZYB206	Brazil	R. Soc. Educ. do Carirí, Crato, CE
	1/0.25	ZYB205		R. Cl. de Rio Largo, o, AL
	5/0.25	ZYF82		R. Educ. de Coronel Fabriciano, o, MG
	5/0.25	ZYE349		R. Colombo do Paraná, Colombo, PR
	10	HJDQ	Colombia	Em. Claridad, Medellín
	10	HJFT		Ecos del Combeima, Ibagué (vf)
	10	HJFE		La Voz de Pereira, o
	10	HJKS		La Voz del Llano, Villavicencio
	10	HJZD		R. Panzenú, Montería
	0.6	HCLV1	Ecuador	R. El Sol, Quito
	1	HCSK7		R. Federación Sucúa, Sucúa
	5	ZP14	Paraguay	R. Ñanduti, Asunción
	10	YVMX	Venezuela	R. Calendario, Maracaibo
	10	YVRS		R. Margarita, La Asunción
1025	0.25	HCTO5	Ecuador	La Voz del Pueblo, Colta
1027	1	HCRR2		R. Popular Rocafuerte, Guayaquil (nf 1030)

kHz	kW	Call	Country	Station/Location
1030	50/5	LRA15	Argentina	R. Nacional, Tucumán
	25/3	LRA19		R. Nal. Pto. Iguazú
	25/5	LS10		R. del Plata, Buenos Aires
	10/5	ZYK22	Brazil	R. Olinda, Recife (Olinda), PE
	25/5	ZYD24		R. Em. Continental, RJ, R1
	1/0.25	ZYE217		R. Jauense, Jaú, SP
	1/0.25	ZYE68		Lins R. Cl., Lins, SP
	5	ZYH64		R. Princesa, Lages, SC
	1/0.25	ZYH217		R. Camaquense, Camaquã, RS
	1/0.25	ZYW29		R. Cult. de Anápolis, o, GO
	1	CB103	Chile	R. Valentín Letelier, Valparaíso
	10	CC103		R. Nacional, Concepción
	1	CD103		R. Chiloé, Castro
	1	CD103		R. Payne, Pto Natales
	10	HJDJ	Colombia	La Voz de los Libertadores, Duitama
	10	HJDZ		R. Primavera, Bucaramanga
	30	HJER		R. Pacífico, Cali (vf)
	1	HCKL4	Ecuador	R. Unión, Chone
	1	OAX2W	Peru	R. Atahualpa, Cajamarca (nf 1380)
	0.25	OAX7N		La Voz del Altiplano, Puno
	5		Surinam	ABC Radio, Paramaribo
	10	YVQY	Venezuela	R. Onda, Guanare
	10	YVTD		R. Valles del Tuy, Ocumare del Tuy
1040	100	PRG2	Brazil	R. Tupí, São Paulo, SP
	15	HJAI	Colombia	R. Tropical, Barranquilla
	10	HJCJ		R. Super, Bogotá
	10	HJGX		R. Progreso de Córdoba, Lorica
	1	HCCW1	Ecuador	La Voz del Valle, Machachi
	10	OBX4O	Peru	R. Onda Popular, Lima
				R. Constelación, Trujillo
	10	YVLB	Venezuela	La Voz de Carabobo, Valencia
	10	YVON		R. Los Andes, Mérida
1045	0.45	HCER5	Ecuador	Escuelas Radiofonicas Populares, Riobamba
	0.5	HCGB6		R. Colosal, Ambato
1050	15	HJDR	Colombia	R. Familiar, Medellín
	10	HJLZ		La Voz del Cinaruco, Arauca
	2.5	HJNG		R. Palmira, o
	10	HCAJ2	Ecuador	R. Dif. del Ecuador, Guayaquil
	1	OAX6B	Peru	R. Arequipa, o
	10	CX26	Uruguay	SODRE, Montevideo
	10	YVKZ	Venezuela	R. Nacional, Caracas
	10	YVNU		R. Caroní, San Félix (vf)
1055	2	HJBB	Colombia	R. Valledupar, o (nf 1050)
	15	HJFZ		La Voz del Centro, El Espinal (nf 1050)
1060	5/1	ZYB78	Brazil	R. Tapuyo, Mossorô, RN
	1	ZYC35		R. Cl. de Conquista, Vitória da Conquista, BA
	1/0.25	ZYI5		R. Itajuba, o, MG
	1/0.25	ZYD84		R. Imperial, Petrópolis, RJ
	5/0.25	ZYE308		R. Educ. de Piracicaba, o, SP
	50	CB106	Chile	R. Minería, Santiago
	15	HJFJ	Colombia	Tr. Caldas, Manizales (vf)
	1	HJGU		Armonías del Búcarica, Bucaramanga (vf)
	1	HJMG		R. Prosperidad, Turbo
	3	HJMV		R. Furatena, Chiquinquirá
	0.75	HCAC6	Ecuador	Ecos del Pueblo, Saquisilí
	2.5	ZP13	Paraguay	R. Boquerón, Alberdi
	2	OAX3U	Peru	R. Horizonte, Tingo María
	1	OCY4Y		R. Mil Sesenta, Lima
	1.8	OBX5D		R. Andahuaylas, o
	1	YVLN	Venezuela	R. Guárico, San Juan de los Morros (vf)
	5	YVDE		R. San Cristóbal, o
1065	10	HJFM	Colombia	La Voz de Armenia, o (nf 1040)
	2	HCRP3	Ecuador	R. Palmira, Vilcabamba
1070	100	LR1	Argentina	R. El Mundo, Buenos Aires
1070	5/1	ZYJ22	Brazil	R. Dif. Cajazeiras, o, PB
	1/0.25	ZYO20		R. Dif. de Colatina, o, ES
	15	HJAG	Colombia	Em. Atlántico, Barranquilla (vf)
	15	HJCG		R. Santa Fé, Bogotá
	0.5	HCVP1	Ecuador	Em. Libertad, Quito
	1	HCRS1		R. Lubacan, Sto Domingo do los Colorados
	4		Fr. Guyana	FR-3, Cayenne
	2.5	OAX2B	Peru	R. Trujillo ("La Voz del Norte del Perú"), Trujillo
	0.25	OAX5A		R. Centinela, Puerto San Juan
	1	YVKW	Venezuela	R. Mil Setenta, La Guaira
	10	YVMA		R. Zulia, Maracaibo
1075	4	HJDZ	Colombia	R. Reloj, Medellín (nf 1080)
1080	1	LU16	Argentina	R. Río Negro, Villa Regina
	10/5	ZYA58	Brazil	R. Guajará, Belém, PA
	1/0.25	ZYB69		R. Iracema de Juazeiro, Juazeiro do Norte, CE
	5/0.5	ZYB93		R. Dif. de Caruarú, o, PE
	5/0.5	ZYT9		R. Industrial de Juiz de Fora, o, MG
	5/0.25	ZYR249		R. Assunção de Jales, o, SP
	5/0.5	ZYE97		R. Cl. de Sorocaba, o, SP
	1/0.25	ZYS78		R. Cruzeiro do Sul, Cornelio Procopio, PR
	1/0.5	ZYE542		R. Cl. Pontagrossense, Ponta Grossa, PR
	1/0.25	ZYH86		R. Cl. de Blumenau, Indaial, SC
	10/1	ZYH100		R. Dif. da Univ. do Rio Grande do Sul, Pôrto Alegre, RS
	50/5	ZYF244		R. Independência, Brasília, DF
	1	CB108	Chile	R. Recreo, Viña del Mar
	1	CC108		R. Los Héroes, Chillán
	1	CA108		R. Río Elqui, Vicuña
	10	HJAW	Colombia	La Voz de Montería, o (vf)
	1	HJIS		R. Pontaná, La Dorada
	10	HJJF		R. Musical, Cali
	10	HJKT		R. Macarena, Villavicencio
	1	HJPA		La Voz de las Islas, Isla San Andrés
	10	HCFD2	Ecuador	R. Noticia, Guayaquil
	10	OAX4F	Peru	R. Nal Mil Ochenta, Lima
	5	OBX1D		R. San Miguel, Piura
	1	OAX7S		R. Salcantay, Cuzco
	1	OAX8N		R. Samarén, Iquitos
	10	YVNR	Venezuela	R. Universal, Maracay
	10	YVQJ		R. Barcelona, o
1085	1	HCAB4	Ecuador	R. Eco, Manta
1090	25/5	LV5	Argentina	R. Sarmiento, San Juan
	0.25	CP45	Bolivia	R. Cultura, Cochabamba
	10	CP57		R. Progreso, La Paz
	10/5	ZYI25	Brazil	Em. de Educ. Rural, Natal, RN
	25/5	ZYD64		R. Rio de Janeiro, RJ, RJ
	5/0.5	ZYE292		R. Cl. de Marília, o, SP
	1/0.25	ZYR49		R. Cult. de Monte Alto, o, SP
	1/0.25	ZYE201		R. Vicente Palótti, Coronel Vivida, PR
	5/0.25	ZYH243		R. Colón, Joinville, SC
	1/0.25	ZYT46		R. Estadual, Tubarão, SC
	1/0.25	ZYH71		R. Cachoeira do Sul, o, RS
	1/0.25	ZYF7		R. Erechim, o, RS
	1/0.25	ZYW38		R. Independência, Goiânia, GO
	1	CA109	Chile	R. La Portada, Antofagasta
	5	CB109		R. Novísima, Santiago
	5	CC109		R. Regional de Talca, Talca
	1	CD109		R. Minería, Punta Arenas
	10	HJBC	Colombia	La Voz de Cúcuta, o
	10	HJEO		Ondas del Valle, Cartago
	10	HJIA		Ondas del Nevado, Manizales
	10	HJIG		La Voz dé la Selva, Florencia
	1	HJIH		La Voz del Oriente, Sogamoso
	0.25	HCMG1	Ecuador	R. Fantasía, Quito

kHz	kW	Call	Country	Station/Location
1090	0.05		Fr. Guyana	FR3, St. Laurent du Maroni
	15/5	CX28	Uruguay	R. Imparcial, Montevideo
	10	YVPB	Venezuela	R. Yaracuy, San Felipe
	5	YVSZ		Exitos Diez Noventa, Caracas
	5	YVTG		R. Visión Machiques, o
1095	0.4	HCRR6	Ecuador	R. Rey, Latacunga
1100	0.25	CP55	Bolivia	R. Univ. Oruro
	100	PRG9	Brazil	R. Nacional, São Paulo, SP
	1	HJAT	Colombia	R. Reloj, Barranquilla
	10	HJCN		R. Reloj, Bogotá (vf)
	10	HJGO		R. Paisa, Andes
	5	HJMK		Em. Ideal, Planeta Rica
	10	HJTM		R. Sonar, Ocaña
	8	HCFW2	Ecuador	R. Melodía, Guayaquil
	0.2	HCRR5		R. Reloj, Cuenca
	1	OBX1L	Peru	R. Star, Chiclayo
	1	OAZ4W		R. Musical, Barranca
	0.15	OCX4S		R. Imperial, Cañete (ts)
	1	OCY4G		R. Sonorama, El Tambo
	1	OAX5Z		R. Oasis, Ica
	1	OBX7Z		R. Comercial, Juliaca
	0.5	OAX9J		R. San Martín, Juanjuy
	1	YVOP	Venezuela	R. Occidente, Tova.
	10	YVSW		R. Angostura, Ciudad Bolívar
1105	0.5	HCEG1	Ecuador	R. Exito, Quito (nf 1110)
	1	HCRP6		R. Pelileo, o
1110	20/5	LR2	Argentina	R. Argentina, Buenos Aires
	10/5	LV7		R. Tucumán, o
	1.4	CP129	Bolivia	R. El Sol de Septiembre, Cochabamba
	20/10	PR14	Brazil	R. Tabajara, João Pessõa, PB
	1/0.25	ZYF73		R. Planalto de Araguari, Araguari, MG
	1	ZYF233		R. Aurilândia, Nova Lima, MG
	5	ZYD55		R. Cult. de Campos, o, RJ
	1/0.25	ZYE224		R. Luz, Araçatuba, SP
	1/0.25	ZYR24		R. Soc. Ibitinga, o, SP
	1/0.25	ZYE298		R. Cult. de Mogi Mirim, o, SP
	1/0.25	ZYS57		R. Paiquerê, Londrina, PR
	1/0.25	ZYE71		R. Tapajós, São José dos Pinhais, PR
	1/0.25			R. Dif. Indio Condé, Chapecó, SC
	1/0.25	ZYH88		R. Anita Garibaldi, Florianópolis, SC
	1/0.25	ZYH311		R. Sobradinho, o, RS
	0.1	CC111	Chile	R. El Roble, Parral
	1	CD111		R. La Frontera, Temuco
	1	HJDI	Colombia	R. Bolivariana, Medellín
	15	HJEW		R. Reloj, Cali (vf)
	10	HJJP		R. Villavicencio, o
	2.5	HJNC		La Voz del Nevado, Ibagué
	5	HJZE		R. Piragua, Sincelejo
	10	YVQT	Venezuela	R. Carúpano, o
	10	YVRX		R. Mía, Valencia
1115	0.5	CP83	Bolivia	R. Norte, Montero
	0.5	HCLA2	Ecuador	R. América, Guayaquil
1120	10/3	LU13	Argentina	R. Necochea, o
	5	LV19		R. Mun. de Malargüe, o
	1	ZYH37	Brazil	R. Tupinambá, Sobral, CE
	5/1	ZYK34		R. Relógio Musical, Paulista, PE
	1/0.25	ZYE430		R. Em. Portofelicense, Pôrto Feliz, SP
	1/0.25	ZYE5		R. Cl. de São José dos Campos, o, SP
	20/10	ZYH223		R. Continental, Pôrto Alegre
	5	HJGH	Colombia	R. del Comercio, Bucaramanga
	1	HJJC		R. Cartago, o
	10	HJKQ		R. Tunja, o
	1	HCEB1	Ecuador	Ecos de Montúfar, San Gabriel
	1.5	HCRT5		La Voz del Tomebamba, Cuenca
	1.5	ZP24	Paraguay	R. Nuevo Mundo, San Lorenzo
1120	10	OAX1K	Peru	R. Nal del Perú, Tumbes
	10	OAX6D		R. Nal del Perú, Tacna
	10	OAX8A		R. Nal del Perú, Iquitos
	2	CW31	Uruguay	R. Salto, o
	10	YVMF	Venezuela	Ondas del Lago, Maracaibo
1125	1	HCIR1	Ecuador	R. Inty Raimy, Pomasqui
	2	HCPV6		R. Centro, Ambato
1130	25/5	LRA21	Argentina	R. Nal, Stgo del Estero
	20/5	LU5		R. Neuquén, o
	10	ZYA57	Brazil	R. Marajoara, Belém, PA
	100/10	ZYD63		R. Ipanema, RJ, RJ
	1/0.25	ZYR67		R. Piratininga, Tupã, SP
	1/0.25	ZYE363		R. Castro, o, PR
	5/1	ZYH94		R. Princesa do Oeste, Xanxeré, SC
	5/1	ZYU92		R. Medianeira, Sta Maria, RS
	10	HJAC	Colombia	Em. Rio-Mar, Barranquilla
	5	HJCO		Em. Eldorado, Bogotá
	10	HJFP		R. Neiva, o
	1	HJJN		Ondas del Mayo, La Unión
	5	HJNH		Ondas del Río, Magangué
	10	HJTI		R. Tonchalá, Cúcuta
	2	HCRD1	Ecuador	R. Punto, Ibarra
	2.6	OAX4N	Peru	R. Selecta, Lima
	1	OAZ4S		R. Chanchamayo, La Merced
	0.45	OAX7H		R. Puno, o
	10/5	CX30	Uruguay	La Radio, Montevideo
	1	YVPY	Venezuela	R. Amazonas, Pto Ayacucho
	10	YVRU		R. Litoral, Caraballeda
1135	5	HCSK7	Ecuador	R. Federación Sucúa, Sucúa
1140	20/10	ZYC47	Brazil	R. Cult. da Bahia, Salvador, BA
	1/0.5	ZYD2		R. Soc. de Muriaé, o, MG
	1/0.25	ZYE320		R. Educ. e Cult. de Rio Claro, o, SP
	1/0.25	ZYE62		R. Cacique de São Caetano do Sul, São Caetano do Sul, SP
	50	CB114	Chile	R. Nal. de Chile, Stgo.
	15	HJDL	Colombia	R. Cristal, Medellín
	1	HJEV		La Voz del Valle, Cali
	10	HJFH		La Voz de Anserma, o
	10	HJKO		La Voz de la Victoria, Cartagena
	10	HJKW		La Voz de los Centauros, Villavicencio
	10	HJTR		R. Girardot, o
	10	HCFZ1	Ecuador	R. Omega, Quito
	0.5	HCFB2		R. Cóndor, Guayaquil
	1	HCAZ5		R. Alfa Musical, Cuenca
	1.6	ZP22	Paraguay	R. Panambí Verá, Villarrica
	1	OAX3R	Peru	R. Bahía, Chimbote
	1	OAX3I		R. Tingo María, o (nf 1080)
	1	OCY4C		R. Centro, Huancayo
	1	OAX5W		R. Chinchaysuyo, Chincha Alta
	1	OAX6L		R. Concordia, Arequipa
	10	YVMU	Venezuela	R. Carora, o
	10	YVOO		R. Frontera, San Antonio del Táchira
1150	25/5	LT5	Argentina	R.Chaco, Resistencia
	25/5	LU6		R. Atlántica, Mar del Plata
	10/5	ZYA51	Brazil	R. Pioneira de Teresina, o, PI
	20/5	ZYF42		R. Tiradentes, Belo Horizonte, MG
	10	HJBT	Colombia	R. Catatumbo, Ocaña
	1	HJFI		Pregones del Quindío, Armenia
	1	HJGJ		R. Vencedores, Duitama
	1	HJTE		Brisas del Citará, Quibdó
	0.5	HCGB5	Ecuador	La Voz de Riobamba, o
	10	OAX8D	Peru	R. Loreto, Iquitos
	10	YVMM	Venezuela	Ondas del Caribe, Punto Fijo
	1	YVQD		Ecos del Orinoco, Ciudad Bolívar

kHz	kW	Call	Country	Station/Location
1155	0.5	HCND4	Ecuador	R. Cenit, Portoviejo
1160	25/5	LV9	Argentina	R. Salta, o
	10/8	LT3		R. Cerealista, Rosario
	0.5	CP19	Bolivia	R. Agustín Aspiazu, La Paz
	0.25	CP25		R. Centenario, Sta Cruz
	0.25	CP78		R. Tunari, Cochabamba
	0.25	CP98		R. Nuevo Mundo, Sucre
	1	PRF5	Brazil	R. Cariri, Campina Grande, PB
	20/10	PRI9		R. Espírito Santo, Vitória, ES
	1/0.25	ZYR25		R. Cl. de Mococa, o, SP
	1/0.5	ZYH7		R. Pres. Wenceslau, o, SP
	1/0.25	ZYE222		R. Cacique de Taubaté, o, SP
	1/0.25	ZYR43		R. Cacique de Sorocaba, Votorantim, SP
	1/0.25	ZYE69		R. Cornélio Procópio, Londrina, PR
	1/0.25	ZYH230		R. Vale do Itajaí, Blumenau, SC
	1/0.25	ZYH96		R. Dif. de Laguna, o, SC
	1/0.25	ZYH249		R. Dif. Colmeia, Pôrto União, SC
	1/0.25	ZYU51		R. Miriam, Farroupilha, RS
	5/1	ZYH56		R. Univ. Católica de Pelotas, o, RS
	10/5	PRH3		R. A Voz do Oeste, Cuiabá, MT
	2	HJAU	Colombia	Ondas del Orteguaza, Florencia
	5	HJAZ		Em. Sinú, Montería
	10	HJBL		R. Aeropuerto, Barranquilla (Soledad)
	10	HJCK		El Mundo en Bogotá, o
	10	HJPF		R. Antena, Floridablanca
	5	HJZV		R. Las Lajas, Ipiales
	1	HCCP1	Ecuador	R. Presidente, Quito
	5	HCVR3		R. Vía, Machala
	1	OAX2C	Peru	R. Libertad, Trujillo
	0.5	OAX3B		R. Huaraz, o
	1	YVOK	Venezuela	R. Universidad, Merida
	10	YVRR		R. Industrial, Guarenas
1165	0.25	HCUE6	Ecuador	R. Runatacuyac, Latacunga
1170	25/5	LV4	Argentina	R. San Rafael, o
	5/1	ZYI20	Brazil	R. Dif. de Mossoró, o, RN
	10/5	ZYE268		R. Educ. de Campinas, o, SP
	10/1	ZYE347		R. Atalaia de Curitiba, o, PR
	5/1	ZYH202		R. Dif. A Voz de Bagé, o, RS
	1/0.25	ZYU38		R. Municipal, Passo Fundo, RS
	10	HJDT	Colombia	R. Alegría, Medellín
	10	HJGA		R. Boyacá, Tunja
	1	HJJE		Em. Villa de Céspedes, Tuluá
	3	HJJY		R. Lemayá, El Guamo
	2.5	HJLB		Meridiano 70, Arauca
	15	HJNW		La Voz de la Heróica, Cartagena
	10	HJPB		Ondas de Macondo, Valledupar
	0.25	HCVJ5	Ecuador	R. Central, Riobamba
	1	OCX4Y	Peru	R. Cooperativa Satipo, Satipo
	3	CX32	Uruguay	R. El Mundo, Montevideo
	5	YVPX	Venezuela	R. El Sol, La Fría
	10	YVQV		R. Acarigua, o
1175	0.3	HCDP5	Ecuador	R. Cuenca ("La Voz de los Cuatro Ríos"), Cuenca
1180	10/5	ZYF21	Brazil	R. Ribamar, São Luis, MA
	50/10	ZYD62		R. Eldorado, RJ
	50	CB118	Chile	R. Diego Portales, Stgo
	10	HJFX	Colombia	La Voz del Ruiz, Manizales
	20	HJGK		R. Santander, Bucaramanga
	15	HJOV		R. Surcolombiana, Neiva
	0.3	HCRT1	Ecuador	R. Tricolor, Mira
	0.5	HCLR1		Em. Central, Quito
	1	HCSP4		La Voz del Volante, Portoviejo
1180	1	OCY4Z	Peru	R. Libertad, Junín
	10	YVNJ	Venezuela	R. Petrolera, Cd. Ojeda
	10	YVOR		R. Maturín, o
1190	5	LR9	Argentina	R. Antártida, Buenos Aires
	10/5	LW3		R. Splendid Tucumán, Tucumán
	10/1	ZYI27	Brazil	R. Trairy, Natal, RN
	10/1	ZYN21		R. Juazeiro, o, BA
	10	HJCT	Colombia	La Voz de la Costa, Barranquilla
	10	HJCV		R. Cordillera, Bogotá
	10	HJOH		R. Mira, Tumaco
	5	HJOV		R. Barají, Sahagún
	0.3	HCBE2	Ecuador	R. Excelsior, Guayaquil
	10	OAX1E	Peru	R. Chiclayo, o
	5	OAX7B		R. Tawantinsuyo, Cuzco
	10	YVRE	Venezuela	R. Barinas, o
	10	YVZD		R. Dif. Cult. del Táchira, San Cristóbal
1195	1	HCCS1	Ecuador	R. Turismo, Sangolqui
	0.25	HCRF6		R. El Sol, Pujilí
1200	5/3	LT6	Argentina	R. Sargento Cabral, Goya
	25/5	LU3		R. del Sur, Bahía Blanca
	0.25	CP37	Bolivia	R. Sta Ana, Sta Ana del Yacuma
	1	CP67		R. Splendid, La Paz
	10	PRE9	Brazil	Ceará R. Cl, Fortaleza, CE
	50/5	ZYE419		R. Cult. São Paulo, SP
	5/0.25	ZYH281		R. Sul Riograndense, Erechim, RS
	1	CA120	Chile	R. Almirante Blanco Encalada, Tocopilla
	1	CD120		R. Agricultura, Los Angeles
	1	HJBX	Colombia	Ondas del Meta, Villavicencio
	1	HJCD		Em. Nueva Epoca, Fusagasugá
	1	HJIJ		R. Colibrí, Medellín
	10	HJLR		Em. La Villa del Sol, Sogamoso
	10	HJNF		R. Super, Cali
	20	HJZW		R. Almirante, Riohacha
	2	HCRM5	Ecuador	R. El Mercurio, Cuenca
	1.5	ZP11	Paraguay	R. Charitas, Asunción
	2.5	OAX4B	Peru	R. Lima, o
	1	OAX6N		R. El Faro, Ilo
	1	CW33	Uruguay	R. Dif. Florida, o
	10	YVOZ	Venezuela	Radiotiempo, Caracas
	1	YVWA		Ondas del Escalante, Sta Bárbara del Zulia
1205	2	HCRQ2	Ecuador	La Voz del Trópico, Quevedo
1210	25/5	LV3	Argentina	R. Córdoba, o
	1/0.5	LT18		R. Eldorado, o
	1	PRJ4	Brazil	R. Educ. de Parnaíba, o, PI
	1	ZYB94		R. Dif. de Garanhuns, o, PE
	5/1	ZYC26		R. Carioca, Feira de Santana, BA
	1/0.5	PRC6		R. Dif. Brasileira, Uberlândia, MG
	1/0.5	ZYF255		R. Cl. de Varginha, o, MG
	5/1	ZYI9		R. Cachoeiro do Itapemirim, o, ES
	1/0.25	ZYR211		R. Dif. de Araçatuba, o, SP
	1/0.5	ZYE261		Baurú R. Cl, Baurú, SP (vf)
	1/0.25	ZYE285		R. Cl. de Jaboticabal, o, SP
	5/0.25	ZYE207		Em. Vanguarda, Sorocaba, SP
	5/0.5	ZYZ9		R. Universo, Curitiba, PR
	1/0.25	ZYT51		R. Canoinhas, Tubarão, SC
	5/0.25	ZYH280		R. Caiçara, Esteió, RS
	5/1	ZYU210		R. São Miguel, Uruguaiana, RS
	50/5	ZYF58		R. Alvorada de Brasília, o, DF
	1	CA121	Chile	R. Univ. Técnica, Antofagasta
	25	CB121		R. Univ. Técnica del Estado, Santiago
	15	HJFF	Colombia	La Voz Amiga, Pereira
	2	HJFR		La Voz del Huila, Neiva

kHz	kW	Call	Country	Station/Location
1210	0.25	HCGH1	Ecuador	R. Continente, Quito
	0.5	HCMD4		R. Presidente, Sta Ana
	1	OAX2Q	Peru	R. Universo, Trujillo
	1	OAX7M		R. Quillabamba, o
	2.5	CX34	Uruguay	R. Artigas, Montevideo
	10	YVQZ	Venezuela	R. Anzoátegui, Barcelona
1211	10	YVMN		R. Coro, o (vf)
1220	200	ZYD62	Brazil	R. Globo, RJ
	10	HJAV	Colombia	R. Cordobesa, Montería (vf)
	10	HJKR		R. Juventud, Bogotá (vf)
	1	HJMT		Armonías de San Gil, San Gil
	10	HJNM		Em. Cult. Bolívar, Ipiales
	10	HJVF		R. Visión, Barranquilla
	1	OBX4K	Peru	R. Fortaleza, Barranca
	1	OAX5G		R. San Pedro de Grocio Prado, Chincha
	0.42	OAX6X		R. Melodía, Arequipa
	10	YVRD	Venezuela	La Voz de Apure, San Fernando de Apure
	10	YVTU		R. Aeropuerto Internacional, Maracaibo
1223	3	HCBJ2	Ecuador	R. El Mundo, Guayaquil (nf 1220) (vf)
1225	0.3	HCAP1		R. Marañón, Quito
1230	15/5	LT2	Argentina	R. Splendid Rosario, Rosario
	5/1	ZYS8	Brazil	R. Dif. de Amazonas, Manaus, AM
	10/1	ZYB55		R. Correio da Paraíba, João Pessôa, PB
	5/0.25	ZYV21		R. Educ. do Rio Doce, Governador Valadares, MG
	15	HJBE	Colombia	R. Internacional, Cúcuta
	10	HJBR		R. Unica, Tunja
	10	HJLK		R. Calidad, Cali
	1	HJLF		R. Galeón, Acacias
	5	HJMJ		R. Tribuna, Maicao
	1	HJTP		R. La Colina, Girardot
	5	HJIL		La Voz de las Américas, Medellín
	0.22	HCRI1	Ecuador	Centro Radiofónico de Imbabura, Ibarra
	0.25	HCFG4		R. Tropical, Esmeraldas
	1	ZP21	Paraguay	R. Centenario, Caaguazú
	0.4	OBZ4Y	Peru	R. Selecciones, Tarma
	0.5	OBX7J		R. Madre de Dios, Pto Maldonado
	10	YVOH	Venezuela	R. Valera, o
1233	10	YVNT		R. Barlovento, Caucagua (nf 1230)
1235	2	HCMB5	Ecuador	R. Popular Independiente, Cuenca
	0.4	HCRL6		R. Libertador, Saquisilí
1240	20/5	LU7	Argentina	R. General San Martín, Bahía Blanca
	5	ZYK36	Brazil	R. Capibaribe do Recife, o, PE
	1/0.25	ZYC31		R. Em. de Alagoinhas, o, BA
	1/0.25	ZYV50		R. Platina, Ituiutaba, MG
	1/0.25	ZYR257		R. Municipalista, Botucatu, SP
	10/2.5	ZYE344		R. Cl. de Santos, o, SP
	1/0.25	ZYH214		R. Ibirubá, o, RS
	1/0.25	ZYH306		R. Cult. Santana do Livramento, RS
	1	CA124	Chile	R. del Salitre, Iquique
	1	CB124		R. Viña del Mar, o
	1	CC124		R. Talca, o
	10	HJFG	Colombia	La Voz del Comercio, Armenia
	5	HJGN		R. Barrancabermeja, o
	1	HJJA		R. Buenaventura, o
	1	HJMI		La Voz del César, Valledupar
	0.5	HCAD5	Ecuador	R. Riobamba Musical, Riobamba
	1	OBX7M	Peru	R. Tupac Amaru, Sicuaní
	10	CW35	Uruguay	R. Paysandú, o
	10	YVLQ	Venezuela	La Victoria
	1	YVSF		R. Dimensión, Caripito
1245	1	HCAF1	Ecuador	R. Metropolitana, Quito
1250	1	CP14	Bolivia	Em. Unidas, La Paz
	0.25	CP16		R. Los Andes, Tarija
	0.25	CP17		R. Sararenda, Camiri
	1	CP26		R. Amboró, Santa Cruz
	0.25	CP47		R. Cobija, o
	0.25	CP53		R. Indoamérica, Potosí
	1	CP54		R. La Plata, Sucre
	0.25	CP65		R. Oruro, o
	1	CP69		R. Nacional, Cochabamba
	0.25	CP100		R. Ibaré, Trinidad
	1/0.25	ZYA62	Brazil	R. Educ. Rural, Coari, AM
	1	ZYB66		R. Educ. de Cratéus, o, CE
	5/0.25	ZYC25		R. Esperança, Estância, AL
	5	ZYF246		R. Dif. de Poços de Caldas, o, MG
	1/0.25	ZYE84		R. Matelândia, o, PR
	5/0.5	ZYE208		R. Dif. Guarapuava, o, PR
	1/0.25	ZYE85		R. Paranavaí, o, PR
	1/0.25			R. Soc. Oeste Catarinense, Itapiranga, SC
	5/0.25	ZYH90		R. Cult. de Joinville, o, SC
	1/0.25	ZYH277		R. Dif. Caxiense, Caxias do Sul, RS
	5/1	ZYU76		R. Tupanci, Pelotas, RS
	1/0.25	ZYX21		R. Dif. de Três Lagoas, o, MT
	1/0.25	ZYF63		R. Dif. São Patrício, Ceres, GO
	1	CA125	Chile	R. La Serena, o
	10	CD125		R. Univ. Técnica del Estado, Valdivia
	10	HJCA	Colombia	R. Capital, Bogotá
	1	HJEM		La Voz de Corozal, o
	2.5	HJHS		R. Reloj, Cúcuta
	1	HJHZ		Em. Mariana, Pasto
	1	HJOK		Em. ABC, Barranquilla (vf)
	1	HCCJ2	Ecuador	Canal Juvenil, Guayaquil
	1	HCHP4		R. La Grande, Bahía de Caráquez
	25	ZP3	Paraguay	R. Asunción, o
	5	OAX4L	Peru	R. Miraflores, o
	1	OAX8P		R. Pucallpa, o
	5	CX36	Uruguay	R. Centenario, Montevideo
	1	YVML	Venezuela	R. Cabimas, o
	10	YVPZ		R. Puerto Ordaz, o
1255	5	HCEM1	Ecuador	Ondas Carchenses, Tulcán
1260	10/5	LT9	Argentina	R. Brigadier Gral Estanislao López, Sta Fé
	5	ZYG50	Brazil	R. Educ. de Guajará-Mirim, o, RO
	1/0.25	ZYH23		R. Vale do Jaguaribe, Limoeiro do Norte, CE
	10/5	ZYB49		R. Gazeta de Alagoas, Maceió, AL
	50/1	ZYE245		R. Mulher, São Paulo, SP
	1/0.25	ZYE41		R. Atalaia de Londrina, o, PR
	5/0.25	ZYH58		R. Blumenau, o, SC
	10	CA126	Chile	R. Nacional, Arica
	1	CC126		R. Condell, Curicó
	1	CC126		R. Bío-Bío, Concepción
	1	HJDA	Colombia	Em. Siglo Veinte, Medellín
	1	HJDV		R. Cacique, Ibagué
	2	HJET		R. Visión, Cali
	1	HJHU		R. Morgan, Isla San Andrés
	3	HJLX		R. Cinco, Villavicencio
	1	HJNO		R. Duitama, o
	2.5	HJOU		Ondas del Amazonas, Leticia
	1	HCWN1	Ecuador	La Voz del Triunfo, Sto Domingo de los C.
	0.5	HCBO6		R. Cine, Ambato
	3/1	CW37	Uruguay	R. Dif. Rochense, Rocha
	10	YVRM	Venezuela	R. Impacto, Caracas
	1	YVRY		R. Horizonte, Nirgua
1265	10/1	ZYH95	Brazil	R. Cl. Metrópole, Canôas RS (nf 1260)
	5	HCJE5	Ecuador	Ondas Azuayas, Cuenca
1270	75	LS11	Argentina	R. Prov. de Buenos Aires, La Plata

kHz	kW	Call	Country	Station/Location
1270	5	LRA20		R. Nacional, Las Lomitas
	1	ZYA79	Brazil	R. Educ. Rural, Tefé, AM
	10/1	ZYB5		R. Poti, Natal, RN
	5/0.25	ZYV62		R. Carijós, Conselheiro Lafaiete, MG
	2.5	ZYD80		R. Em. Continental, Campos, RJ
	2.5	ZYR229		R. Brasiliense, Ribeirão Prêto, SP
	1/0.25	ZYR39		R. Brasil, Valinhos, SP
	1/0.25	ZYS26		R. Soc. Guairacá, Mandaguari, PR
	5/0.5	ZYE212		R. Tingui, Piraquara, PR
	1/0.25	ZYT31		R. Herval d'Oeste, o, SC
	1/0.25	ZYH60		R. Garibaldi, Laguna, SC
	1/0.25	ZYH331		R. Sul Brasileira, Panambi, RS
	1/0.25	ZYH219		Em. Riograndense, São Lourenço do Sul, RS
	1/0.25	ZYH302		R. Venâncio Aires, o, RS
	50/10	ZYX9		R. Brasil Central, Goiânia, GO
	0.25	CA127	Chile	R. Cooperativa, Antofagasta
	10	CB127		R. Minería, Viña del Mar
	0.5	CD127		R. Univ. Técnica del Estado, Temuco
	1	HJAQ	Colombia	R. Miramar, Cartagena
	1	HJKZ		Onda Libre, Pereira
	1	HJPJ		R. Tamboral, Río Sucio
	1	HJTX		R. Visión, Bucaramanga
	10	HCUM2	Ecuador	R. Universal, Guayaquil
	0.15	HCAI5		R. Cumandá, Guamote
	0.25	HCCC6		R. Casa de la Cultura, Latacunga
	0.5	OAX1H	Peru	R. Grau, Piura
	0.5	OBZ4T		R. La Merced, o
	1	OAX5B		R. Ica o
	1	OAX8T		R. Eco, Iquitos
		CV127	Uruguay	R. Cuateim, Artigas
	1	YVOU	Venezuela	Ondas Panamericanas, El Vigía
	1	YVTR		R. Tucupita, o
1280	100	ZYD74	Brazil	R. Tupí, RJ, RJ
	5	HJKN	Colombia	R. Sonorama, Bogotá
	1	HJLR		R. Pasto, o
	1	HJMB		R. Suroeste, Concordia
	1	HJNQ		La Voz del Río Suarez, Barbosa
	1	HJOI		La Voz del Pto, Magangué
	2	HCAC1	Ecuador	La Voz de la Democracia, Quito
	1	HCWW5		R. Canal Tropical, Riobamba
	1	YVQS	Venezuela	R. Zaraza, El Tamarindo
1285	1	HCVN4	Ecuador	La Voz del Sur de Manabí, Jipijapa
1290	5/2.5	ZYA61	Brazil	R. Rio Mar, Manaus, AM
	10/5	PRJ9		R. Timbira, São Luis, MA
	1/0.25	ZYF59		R. Jurití de Paracatú, Paracatú, MG
	5/1	ZYR263		R. Independência, São José do Rio Prêto, SP
	5/0.5	ZYJ3		R. Carajá, Anápolis, GO
	1	HJCM	Colombia	R. Sur, Pitalito
	5	HJEB		La Voz del Turismo, Santa Marta (El Rodadero)
	1	HJEC		R. Libertador, Cali (vf)
	1	HJKY		Ondas del Puerto, Girardot (vf)
	1	HJHI		La Voz de Garagoa, o
	1	HJNY		R. Pipatón, Barrancabermeja
	1	HJTH		R. Ritmos, Medellín
	10	CX38	Uruguay	SODRE, Montevideo
	1			SODRE, Carmelo
	10	YVLF	Venezuela	R. Puerto Cabello, o
	10	YVPF		R. Canaima, Ciudad Guayana
1295	0.4	HCMS1	Ecuador	R. Pacífico, San Isidro
	0.5	HCRU1		R. Festival, Sto Domingo de los C.
1295	2	HCMV5		La Voz del Río Tárqui, Cuenca (nf 1290)
	0.5	HCVM6		R. Once de Noviembre, Latacunga
	1	HCNS1		R. Popular, Atuntaqui
1300	3/1.5	LT11	Argentina	R. Splendid, Concepción del Uruguay
	5/1.5	LU22		R. Tandil, o
	1	CP29	Bolivia	R. Fides, La Paz
	1	CP41		R. Loyola, Sucre
	1	CP68		R. San Rafael, Cochabamba
	10	ZYB62	Brazil	R. Iracema de Fortaleza, Fortaleza, CE
	1/0.25	ZYV76		R. Cancela, Ituiutaba, MG
	5/0.25	ZYR84		R. Pres. Prudente, o, SP
	10/1	ZYR217		R. Jornal de São Paulo, São Paulo, SP
	1/0.25	ZYE203		R. Atalaia de Maringá, o, PR
	1/0.25	ZYE60		R. Vila Velha, Ponta Grossa, PR
	5/0.25	ZYH265		R. Cl. de Canoas, o, RS
	5/1	ZYX22		R. Cult. de Cuiabá, o, MT
	5	CB130	Chile	R. Andrés Bello, Stgo
	10	CD130		R. Pilmaiquén, Valdivia
	1	HJIR	Colombia	La Voz de Urabá, Apartadó
	1	HJLD		R. Reloj, Pereira
	1	HJNB		R. Reloj, Bucaramanga
	1	HJOG		La Voz de las Antillas, Cartagena (vf)
	1.5	HCDC2	Ecuador	R. Cenit, Guayaquil
	1	OAX1I	Peru	R. Dif. Comercial, Chiclayo
	1	OAX3O		R. Huascarán, Huaraz
	1	OAX4M		R. Atalaya, Lima
	1	OAZ4B		R. Andina, Huancayo
	0.35	OAX7P		Onda Imperial, Cuzco
	0.3	OAX7X		R. Juliaca, o
	1	OAZ8B		R. Nuevo Mundo, Pucallpa
	5	YVKH	Venezuela	R. Trece, Petare
	10	YVNS		R. Reloj, Maracaibo
1305	5	ZP10	Paraguay	R. Paraguay, Asunción (nf 1300)
1310	9	LRA5	Argentina	R. Nacional, Rosario
	5/1	ZYB35	Brazil	R. Progresso de Juazeiro, Juazeiro do Norte, CE
	5/0.25	ZYC53		R. Bahiana de Ilheus, Ilheus, BA
	5	HJAK	Colombia	La Voz de la Patria, Barranquilla
	1	HJDG		Tr. Río, Montería
	1	HJJD		La Perla del Pacífico, Tumaco
	5	HJJZ		R. Visión, Bogotá
	5	HJLM		R. Santa Bárbara, o
	10	HJTQ		R. Tasajero, Cúcuta
	1	HCGB1	Ecuador	R. Reloj, Quito
	0.5	OAX6P	Peru	R. Latina, Tacna (ts)
	5	YVIC	Venezuela	R. Bonita, Guatire
	5	YVTS		R. Visión Andina, Isnotú
	5	YVZX		R. Republica ("La Estación Feliz"), Maturín
1315	0.25	HCCP3	Ecuador	La Voz de El Oro, Pasaje
1320	5/3	LU10	Argentina	R. Azul, o
	1/0.25	ZYB200	Brazil	R. Progresso de Alagoas, Maceió, AL
	5/1	ZYB71		R. Iracema de Sobral, Sobral, CE
	5	ZYD58		Petrópolis R. Dif, o, RJ
	1/0.25	ZYE311		R. Dif. Pirassununga, o, SP
	1/0.25	ZYE237		R. Cl. de Tupã, o, SP
	5/1	ZYE43		R. Cruzeiro do Sul, Curitiba, PR
	1/0.25	ZYH285		R. Em. Sul Brasileira, Horizontina, RS
	5/1	ZYH54		R. Cult. de Pelotas, o, RS
	5/1	ZYF64		R. Cl. de Goiânia, o, GO
	0.25	CA132	Chile	R. Estrella del Norte, Vallenar
	0.1	CD132		R. Lincoyán, Cauquenes
	5	HJHT	Colombia	R. Guateque, o
	5	HJMS		R. Regia, Barrancabermeja

kHz	kW	Call	Country	Station/Location
1320	1	HJNK		R. Luna, Palmira
	1	HJON		La Voz del Tocarema, Girardot
	1	HJTA		La Voz de la Independencia, Medellín (vf)
	3	HCJD6	Ecuador	R. Continental, Ambato
	1	OAX1F	Peru	R. Talara, o
	10	OAX4I		R. La Cronica, Lima
	0.5	CW39	Uruguay	La Voz de Paysandú, o
	0.1	CX132		José Battle y Ordeñez, Lavalleja
	5	YVSG	Venezuela	R. Colonial, El Tocuyo
	10	YVZR		R. Continental, Barinas
	1	YVWP		R. Apolo, Turmero
1322	1	HJHY	Colombia	Tr. Sucre, Sincelejo (nf 1340)
1325	0.25	HCFR2	Ecuador	R. Guayaquil, Babahoyo
1329	25/5	ZYE25	Brazil	R. Liberal, Belém, PA (nf 1330)
1330	10/2.5	LT14	Argentina	R. Gral Urquiza, Paraná
	0.25	CP16	Bolivia	R. Mercurio, Oruro
	0.25	CP106		R. Trinidad, o
	5/1	ZYC36	Brazil	R. Dif. de Serrinha, o, BA
	1/0.25	ZYE265		R. Bragança Paulista, o, SP
	1	ZYE226		R. Cult. de Ribeirão Prêto, o, SP
	1/0.25	ZYE75		R. Jaguariaiva, o, PR
	5/0.5	PRC4		R. Cl. de Blumenau, o, SC
	5/0.25	ZYH234		R. Soc. Oeste Catarinense, Chapecó, SC
	1/0.25	ZYU34		R. Upacaraí, Dom Pedrito, RS
	1/0.25	ZYH292		R. Independente, Lajeado, RS
	0.25	CA133	Chile	R. José Santos Osse, Taltal
	1	CB133		R. Panamericana, Stgo.
	1.2	CD133		R. Regional, Puerto Montt
	1	HJAD	Colombia	R. Vigía, Cartagena
	5	HJFQ		La Voz del Pueblo, Pereira
	1	HJNL		La Voz del Chicamocha, Piedecuesta (vf)
	0.45	HCLW5	Ecuador	La Voz de la Cordillera, Cuenca
	10	ZP4	Paraguay	R. Chaco Boreal, Asunción
	1	CX40	Uruguay	R. Fénix, Montevideo
	1	YVOY	Venezuela	R. Los Llanos, Calabozo
	1	YVPJ		R. Rubio, o
	5	YVTU		R. Visión Regional, Ciudad Ojeda
1335	1	HJEN	Colombia	R. La Fabulosa, Cali (nf 1350)
	1	HCPX1	Ecuador	R. Sport, Quito
	1.5	HCRV3		R. Nal. El Oro, Machala (nf 1330)
1337	2	CB134	Chile	R. Porteña, Valparaíso (nf 1340)
1340	1	CP128	Bolivia	R. La Crónica, Sucre
	1	ZYB23	Brazil	R. Dif. Itaquatiara, o, AM
	25/5	ZYF66		R. Guaraní, Belo Horizonte, MG
	1/0.5	ZYE254		R. Cult. de Araçatuba, o, SP
	5/0.25	ZYE49		R. Metropolitana, Mogi das Cruzes, SP
	1/0.25	ZYE65		R. Cult. de Arapongas, o, PR
	1/0.25	ZYG9		R. Dif. de Rio Negro, o, PR
	10	ZYH55		R. Itaí, Pòrto Alegre, RS
	1/0.25	ZYX20		R. Dif. de Aquidauana, o, MT
	0.25	CA134	Chile	R. Toco, Tocopilla
	1	CC134		R. La Discusión, Chillán
	0.25	CD134		R. Cacique Paillalef de Pitrufquén, Pitrufquén
	1	HJBF	Colombia	La Voz del Norte, Cúcuta (vf)
	1	HJFA		R. Olímpica, Barranquilla
1340	5	HJFB		La Voz de la Sabana, Bogotá
	1	HJJS		R. Andagoya, Buenaventura
	5	HJKD		Armonías del Sur, Neiva
	1	HJNA		La Voz de la Amistad, Pasto
	1	HCDR4	Ecuador	R. Cenit, Bahía de Caráquez
	1	HCRB5		R. Trece de Noviembre, Cajabamba
	1	HCMC7		La Voz de los Aucas, Francisco de Orellana
	1	OBX1K	Peru	R. San Francisco, Piura
	0.2	OAZ4M		R. Huaral, o
	0.5	OAZ4Q		R. Jauja, o
	1	OAX5H		R. Ayacucho, o
	0.5	OBX7X		R. Urubamba, o
	1	OAX9C		R. Tropical, Tarapoto
	2.5/1	CW53	Uruguay	La Voz de Melo, o
	5	YVME	Venezuela	R. Uno, Petare
	1	YVQU		R. San Carlos, o
1345	0.25	CP24	Bolivia	R. Grigotá, Santa Cruz (nf 1340)
	3.5	HCPS6	Ecuador	R. Paz y Bien, Ambato
1350	10/5	LS6	Argentina	R. del Pueblo, Buenos Aires
	1	CP82	Bolivia	R. Electra, Potosí
	5	ZYA52	Brazil	R. Educ. de São José, Macapá, AP
	1	ZYB38		R. Borborema, Campina Grande, PB
	5	PRH5		R. Cult. de Poços de Caldas, o, MG
	5/0.25	ZYE413		R. Dif. Rondon, Marechal Cândido Rondon, PR
	1/0.25	ZYP6		R. Canoinhas, o, SC
	1/0.25	ZYH206		R. Vale do Itajaí, Itajaí, SC
	1	ZYH213		R. Dif. de Três Passos, o, RS
	1	CA135	Chile	R. Riquelme, Coquimbo (vf)
	1	CD135		Cabo de Hornos, Pto Williams
	0.5	CD135		R. Pudeto, Ancud
	1	HJDS	Colombia	Ondas de la Montaña, Medellín
	1	HJHL		R. Festival, Ibagué
	2	HJHW		Ecos del Rio, Pto Boyacá
	1	HJLO		Brisas del Cauca, Caucasia
	1	HJOC		Em. Punta Betín, Sta Marta
	2	HJOZ		La Voz del Yopal, o
	1	HJRP		R. Perijá, Codazzi
	2	HCPZ1	Ecuador	R. Rumichaca, Tulcán
	0.3	HCPV2		R. Reloj, Guayaquil
	1	HCVL7		Ecos del Oriente, Lago Agrio
	1.5	OAX3N	Peru	Ondas de Huallaga, Huánuco
	1	OBX6F		R. Ilo, o
	1	OAX7N		R. Sicuaní, o
	5	YVTJ	Venezuela	R. Visión Falcón, Cumarebo
	5	YVTL		R. Visión Sur del Lago, Caja Seca
	10	YVZZ		R. Guanipa, El Tigrito
1360	5	ZYE29	Brazil	R. Em. de Educ. Rural, Santarém, PA
	10	ZYH25		R. Uirapurú, Fortaleza, CE
	25/10	ZYD42		R. Guanabara, RJ
	5/1	ZYE276		R. Cult. de Fernandópolis, o, SP
	1/0.25	ZYU62		R. Soc. Cerro Azul, Cerro Largo, RS
	1/0.25	ZYH207		R. Alvorada de Marau, o, RS
	5/2	ZYA2		R. Dif. Matogrossense, Corumbá, MT
	10/1	ZYW21		R. Anhanguera, Goiânia, GO
	0.25	CA136	Chile	R. Freirina, Vallenar
	10	CC136		R. Univ. Técnica del Estado, Concepción
	1	HJGI	Colombia	R. José A. Galán, Socorro
	1	HJRA		Ecos del Risaralda, Pereira
	1	HJTU		R. Reloj, Cartagena
	1	HCRJ5	Ecuador	R. América, Riobamba

kHz	kW	Call	Country	Station/Location
1360	1	OAX4Y	Peru	R. Excelsior, Lima
	2.5	CW41	Uruguay	Bc. San José, o
	5	YVTI	Venezuela	Catatumbo Internacional, Maracaibo (nf 1330)
	10	YVTW		R. Alegría, Chivacoa
	1	YVTZ		R. Guaicaipuro, Charallave
1370	0.25	LV18	Argentina	R. Mun. de San Rafael, o
	0.5	CP133	Bolivia	R. Dif. Tupiza, o
	1	ZYQ8	Brazil	R. Dif. de Teresina, o, PI
	5/1	ZYC44		R. Dif. Sul da Bahia, Itabuna, BA
	1/0.25	ZYV27		R. Dif. Machado, o, MG
	1/0.25	ZYF219		R. Soc. Ubaense, Ubã, MG
	1/0.25	ZYE200		R. Urubupungá, Andradina, SP
	1/0.5	ZYE87		R. Cult. de Araraquara, o, SP
	1/0.25	ZYE328		R. Piratininga, São José dos Campos, SP
	10/1	ZYE353		R. Independência do Paraná, Curitiba, PR
	1/0.25	ZYH252		R. Colmeia, São Miguel d'Oeste, SC
	1/0.25	ZYH282		R. Em. do Nordeste, Flores da Cunha, RS
	5/0.25	ZYU85		R. Guarathan, Sta Maria, RS
	1	HJBD	Colombia	R. Guaimaral, Cúcuta
	1	HJBO		R. Piloto, Barranquilla
	1	HJEQ		La Voz del Cauca, Popayán
	1	HJFY		R. Avenida, El Espinal
	1	HJNI		R. Sabanas, Sincelejo
	1	HJNU		Ecos de Rionegro, o
	1	HJKX		R. Mundial, Bogotá (Zipaquirá)
	2	HCJS1	Ecuador	Ecos Andinos, Pinampiro
	1	HCHB3		R. Impacto, Piñas
	5	HCEH3		R. Nal. Progreso, Loja
	1	HCOV7		La Voz del Oriente, El Puyo
	0.25	HCCP7		La Voz del Cenepa, Zamora
	1	OAX1G	Peru	R. Tumbes, o
	1.5	OAZ4O		R. Cosmos, Huacho
	1	OBX4V		R. Junín, Huancayo
	0.5	OAX6T		La Perla del Sur, Moquegua
	2.5	CX42	Uruguay	R. Vanguardia, Montevideo
	1	CW137		R. San Javier, o
	5	YVLO	Venezuela	R. La Pascua, Valle de La Pascua
	5	YVSV		R. Portuguesa, Araure
	5	YVUI		R. Cumbre, Ejido (Mérida)
1375	0.5	HCWM2	Ecuador	La Voz del Milagro, El Milagro
	1	HCJR6		R. Mera, Ambato
1380	5/1	LU32	Argentina	R. Olavarría, o
	5/1	ZYA56	Brazil	R. Alvorada de Parintins, o, AM
	10/5	ZYB207		R. Continental, Recife, PE
	5/1	ZYD31		R. Dif. de Campos, o, RJ
	1/0.25	ZYE297		R. Dif. Mogi Guaçú, o, SP
	1/0.25	ZYE206		R. Renascença, Ribeirão Prêto, SP
	50	CB138	Chile	R. Colo Colo, Santiago
	5	HJEE	Colombia	R. Triunfo de Boyacá, Tunja
	1	HJEJ		Armonías del Palma, Palmira
	1	HJID		R. Mercante, Gigante
	1	HJLG		La Voz de La Dorada, o
	1	HJLM		R. Industrial, Medellín
	1	HJMM		R. Reloj, Valledupar
	1	OBX5C	Peru	R. El Pueblo, Ica
	3	OAX6O		R. San Martín, Arequipa
	1	OCY4U		R. ABC, Chosica
	5	YVJC	Venezuela	R. Independencia, Soledad
	5	YVJD		Ondas del Mar, Pto Cabello
	1	YVOW		R. Boconó, o
1381	1	ZP8	Paraguay	R. Concepción, o (vf)
1382	1	OAX3H	Peru	R. Interamericana, Chimbote (nf 1370) (vf)
1388	2.5/1	CW45	Uruguay	Dif. Treinta y Tres, o (nf 1390)
1390	5	LR11	Argentina	R. Univ. Nal. de La Plata, La Plata
	1	CP3	Bolivia	R. Nal. de Bolivia, La Paz
	0.25	CP113		R. Villazón, o
	1	CP122		R. Nuevo Mundo, Trinidad
	1	ZYA68	Brazil	R. Educ. de Bragança, o, PA
	1	ZYB97		R. Dif. de Pesqueira, o, PE
	10/0.5	ZYF81		R. Jornal de Minas, Contagem, MG
	1/0.5	ZYV37		R. Triângulo Mineiro, Uberaba, MG
	5/0.5	ZYD36		R. Dif. de Cariacica, o, ES
	5/0.5	ZYD37		R. Sul Fluminense, Barra Mansa, RJ
	1/0.25	ZYR72		R. Cultura, Campinas, SP
	1/0.25	ZYR210		R. Oceânica, Caraguatatuba, SP
	5/1	ZYE376		R. Cult. de Maringá, o, PR
	1/0.25	ZYT30		R. Diário da Manhã, Lages, SC
	5/0.5	ZYH84		R. Alto Taquari, Pôrto Alegre, RS
	1	HJFO	Colombia	R. Luz, Manizales
	1	HJZY		R. Lemas, Bucaramanga
	1	HCVL1	Ecuador	La Voz de los Lagos, Atuntaqui
	0.5	HCCV1		R. Ritmos, Quito
	0.75	HCEI1		R. Uno, Urcuquí
	0.25	HCPB3		R. Intiñán, Saraguro
	0.25	HCBH6		R. Latacunga, o
	5	YVTT	Venezuela	R. Visión Lara, Cabudare (Barquisimeto)
	1	YVZC		R. Selecta, Maracaibo
1395	3	HCVE4	Ecuador	La Voz de Esmeraldas, o
1400	10/2	LU11	Argentina	R. Em. del Oeste, Trenque Lauquén
	5/1	ZYZ6	Brazil	R. Espinhares de Patos, Patos, PB
	25/5	ZYD72		R. Roquette Pinto, RJ, RJ
	1/0.25	ZYE48		R. Dif. de Lucélia, o, SP
	1/0.25	ZYE59		R. Progresso, São Carlos, SP
	1/0.25	ZYE406		R. Anchieta, São José do Rio Prêto, SP
	2.5	ZYE416		R. Cult. Nossa Senhora do Belém, Guarapuava, PR
	1/0.25	ZYS76		R. Cruzeiro do Sul, Londrina, PR
	1/0.25	ZYE248		R. Entre Rios, Palmitos, SC
	1/0.25	ZYH201		R. Dif. Alto Vale, Rio do Sul, SC
	2.5/1	ZYF43		R. Univ. Federal de Goiás, Goiânia, GO
	1	CC140	Chile	R. Inéz de Suárez, Concepción
	1	HJAS	Colombia	Em. Variedades, Barranquilla
	1	HJBK		La Voz de la Gran Colombia, Villa del Rosario
	1	HJIT		Ecos del Atrato, Quibdó
	1	HJJJ		R. Ipiales, o
	1.5	HJKM		Em. Mariana, Bogotá
	1	HJLL		R. Mía, Sta Barbara
	1	HJTJ		Ondas del Urrá, Montería
	1	HJHM		La Voz de Calarcá, o (vf)
	0.2	HCFL2	Ecuador	R. Continental, Guayaquil
	0.3	HCDS4		R. Tropical, Manta
	1	HCRC7		R. Curacay, Tena
	1	ZP25	Paraguay	R. Nanawa, Luque
	1	OAX2O	Peru	R. Perú, Chepén (ts)
	3	OBX4W		R. Callao, o (vf)
	0.5	OAZ4P		R. San Juan, Tarma
	0.45	OAX6J		R. Landa, Arequipa
	1	OAX7I		R. La Hora, Cuzco
	1/0.25	OAX2D		R. Cajamarca, o (nf 1350)
	10	CX140	Uruguay	R. Zorrilla de San Martín, Tacuarembó
	1	YVJB	Venezuela	R. Sabana, El Sombrero
	5	YVZJ		R. Juvenil, Barinas
	5	YVZT		R. Anaco, o
1405	1	HJTY	Colombia	La Voz del Carare, Vélez (nf 1410)

kHz	kW	Call	Country	Station/Location
1405	5	HCCV5	Ecuador	R. Tropicana, Cuenca (nf 1390)
1410	10	ZYH26	Brazil	R. Verdes Mares, Fortaleza, CE
	1/0.25	ZYC54		R. Escola, São Gonçalo dos Campos, BA
	1/0.25	ZYF38		R. Rural de Tupaciguara, o, MG
	5/0.25	ZYD49		R. Itaperuna, o, RJ
	20/5	PRE7		R. América, São Paulo, SP
	5/0.25	ZYH301		R. Em. Minuano, Rio Grande, RS
	5/0.25	ZYH209		R. Santa Rosa, o, RS
	1/0.25	ZYH319		R. Em. Veranense, Veranópolis, RS
	5/1	ZYX29		R. Cl. de Corumbá, o, MT
	1	CB141	Chile	R. Valparaíso, o
	1	CD141		R. Loncoche, o
	1	HJDU	Colombia	Em. Cultural, Medellín
	10	HJEI		R. Guadalajara, Buga
	1	HJFS		Ondas del Gualí, Honda
	2	HCNJ1	Ecuador	R. El Tiempo, Quito
	0.5	HCRN5		R. Cordillera, Guano
	5	HCVG8		La Voz de Galápagos, Isla San Cristóbal
	2	OAX2Y	Peru	R. Heróica, Trujillo
	1	OBZ4V		R. Universal, Huacho
	5	CX44	Uruguay	R. Color Panamericana, Montevideo
	0.25	CV141		R. Belén, o
	1	YVNY	Venezuela	R. Güiria, o
	5	YVST		R. Clarín, Turén
1420	1	CP49	Bolivia	R. Centro, Cochabamba
	10	ZYA60	Brazil	R. Cl. do Pará, Belém, PA
	5/1	ZYB38		R. Educ. Sampaio, Palmeira dos Indios, AL
	5/0.25	ZYC43		R. Jornal de Ilheus, o, BA
	1/0.25	ZYI4		R. Imbiara de Araxá Araxá, MG
	5/0.25	ZYF252		R. Ibituruna, Governador Valadares, MG
	1/0.25	ZYF247		R. Sta. Cruz, Jequitinhonha, MG
	1/0.25	ZYE213		R. Dif. João Nepomuceno, o, MG
	1/0.25	ZYR71		R. Progresso de Itatiba, o, SP
	1/0.25	ZYR221		R. Colorado, Jardinópolis, SP
	1/0.25	ZYR244		R. Em. Jauense, Jaú, SP
	1/0.25	ZYE57		R. Cl. de Mirandópolis, o, SP
	1/0.25	ZYE300		R. Dif. de Monte Aprazível, o, SP
	1/0.25	ZYE210		R. Cult. de Taubaté, o, SP
	1/0.25	ZYE369		R. Educ. Rural, Jacarezinho, PR
	5/0.25	ZYS82		R. Cult. de Arapongas, Umuarama, PR
	5/2.5	ZYH92		R. Guarujá, Florianópolis, SC
	5/0.25	ZYH286		R. Repórter, Ijuí, RS
	1/0.25	ZYF35		R. Paranaíba, Itumbiara, GO
	1	CA142	Chile	R. Alonso de Ercilla, Illapel
	1	CC142		R. Maule, Cauquenes
	5	HJAP	Colombia	R. Bahia, Cartagena
	1	HJBH		R. Magdalena, Sta Marta
	1	HJNR		R. Guanentá, San Gil
	1	HCCV6	Ecuador	R. Nuevos Exitos, Salcedo
	0.4	OBX5H	Peru	R. Apurímac, Abancay
	1	OCX7C		R. Qollasuyo, Juliaca
	1	OAX8Z		R. Oriente, Yurimaguas
	5/0.5	CW43	Uruguay	R. Lavalleja, Minas (vf)
	0.1	CX142		R. Felicidad, Paysandú
	1	YVOF	Venezuela	R. Trujillo, o
	5	YVZO		R. Visión Zulia, Maracaibo
1423	1	HJHK	Colombia	R. Reloj, Manizales (nf 1420) (vf)
1424	5	CW142	Uruguay	La Voz de Artigas, o (nf 1420)
1425	0.5	HCMB2	Ecuador	R. Porteña, Guayaquil
1430	1/0.5	LT21	Argentina	R. Mun. de Alvear, o
	1	LT24		R. San Nicolás, o
	0.25	LU26		Em. Coronel Dorrego, o
	0.25	LU29		Em. Cóndor, Las Flores
	1/0.25	LV26		R. Río Tercero, o
	0.25	CP141	Bolivia	R. Nuestro Señor de Burgos, Mizque
	1	ZYC35	Brazil	R. Caiari, Pôrto Velho, RO
	5/1	ZYA70		R. Cl. de Santarém, o, PA
	5/1	ZYM21		R. Jornal de Sergipe, Aracajú, SE
	1/0.25	ZYF45		R. Cl. de Guaxupé, o, MG
	1/0.25			R. Dif. Nanuque, o, MG
	1/0.5	ZYF218		R. Educ. Trabalhista, Ubá, MG
	1/0.25	ZYR46		R. Tr. Serra Negra, o, SP
	20/10	ZYE350		R. Cl. Paranaense, Curitiba, PR
	1/0.25	ZYH59		R. Cultura, Cangussú, RS
	1/0.25	ZYH344		R. São Roque, Faxinal do Soturno, RS
	1	CC143	Chile	R. Regional, Rancagua
	1	HJBP	Colombia	R. Cariongo, Pamplona
	2	HJEG		La Voz del Belalcázar, Popayán
	1	HJIU		Armonías del Ingruma, Riosucio
	1	HJKU		La Voz de Maria ("Em. Kennedy"), Bogotá
	5	HJPO		R. Majagual, Corozal (nf 1420)
	2	HJMF		R. Venus, Pto Berrío
	1.5	HJRL		Antena de los Andes, Libano
	1	OBZ4G	Peru	R. San Isidro, Lima
	0.5	OAZ4V		R. Universal, Huacho
	5/1	CW25	Uruguay	R. Durazno, o
	1	YVIT	Venezuela	R. Altura, La Grita
	1.5	YVJA		R. Satélite, Guacara
	5	YVSN		R. Caicara, Caicara del Orinoco
1440	0.25	LT41	Argentina	R. La Voz del Sur Entrerriano, Gualeguaychú
	1/0.25	LV20		R. Laboulaye, o
	1/0.25	LV27		R. San Francisco, o
	0.5	CP72	Bolivia	R. Batallón Colorados, La Paz
	0.5	CP104		R. Oriente, Camiri
	0.25	CP107		R. Yaguarí, Vallegrande
	1	CP119		R. Trópico, Trinidad
	1	PRF6	Brazil	R. Baré, Manaus, AM
	5/1	ZYH20		R. Araripé, Crato, CE
	20/5	ZYD88		R. América, RJ, RJ
	5/0.25	ZYR216		R. Em. Terra Branca, Baurú, SP
	5/0.25	ZYR238		R. Comercial, Pres. Prudente, SP
	5/0.25	ZYE67		R. Colmeia, Cascavel, PR
	1/0.25	ZYH233		R. Cult. de Campos Novos, o, SC
	5/0.25	ZYH99		Em. Reunidas R. Cult, Santo Angelo, RS
	1	CA144	Chile	R. Univ. Técnica del Estado, La Serena
	1	CA144		R. Arica, o
	1	HJBM	Colombia	La Voz de Honda, o
	1	HJBZ		Ondas del Riohacha, o
	1	HJEK		R. Reloj, Tuluá
	1	HJGM		R. Sogamoso, o (vf)
	1	HJIB		La Voz de Caquetá, Florencia
	1	HJNZ		R. Popular, Medellín
	1	HJPM		R. Latinoamericana, Ciénaga
	10	HCBX1	Ecuador	R. Dif. de la Casa de la Cultura, Quito
	0.6	HCDF1		La Voz del Norte, Ibarra
	2	HCOV5		Ondas del Volante, Azogues
	1	OBX1T	Peru	R. Cooperativa Tumán, Chiclayo
	1	OCX4X		R. Cristal, Lima (ts)
	1	OAX6R		R. El Tiempo, Arequipa

kHz	kW	Call	Country	Station/Location
1440	1	YVRF	Venezuela	R. Orituco, Altagracia de Orituco
	5	YVTY		R. Sucesos, Tariba
	5	YVZI		R. Estelar, Guanare
1445	0.5	HCSC5	Ecuador	R. Rubí, Riobamba
	0.25	CX144	Uruguay	R. Rivera, o (nf 1440)
1450	1/0.25	LT44	Argentina	R. Fortín Yunka, Formosa
	1/0.25	LV28		R. Villa María, o
	1	CP61	Bolivia	R. Em. Bolivia, Oruro
	0.25	CP..		R. Willy Bendeck, Sta Cruz
	1/0.25	ZYB57	Brazil	R. Dif. Cristal, Quixeramobim, CE
	1/0.25	ZYD51		R. do Comércio, Barra Mansa, RJ
	1/0.25	ZYE276		R. Cult. de Fernandópolis, o, SP
	1/0.25	ZYZ6		R. Dif. de Guararapes, o, SP
	1/0.25	ZYR207		R. Boa Nova, Guarulhos, SP
	1/0.25	ZYR53		Orlândia R. Cl, Orlândia, SP
	1/0.25	ZYE42		R. São Carlos, o, SP
	1/0.25	ZYE361		R. Cabiúna, Bandeirantes, PR
	1/0.25	ZYE371		R. Educ. de Laranjeiras do Sul, PR
	1/0.25	ZYE35		R. Jornal de Maringá, o, PR
	1/0.25			R. Intregação d'Oeste, São José d'Oeste, SC
	1/0.25	ZYH210		R. Princesa do Sul, Caxias do Sul, RS
	1/0.5	ZYH65		R. Luz e Alegria, Frederico Westphalen, RS
	5	CB145	Chile	R. Univ. Técnica Sta María, Valparaíso
	1	CD145		R. Turismo, Pto. Varas
	1	HJHH	Colombia	Aires del Oriente, Floridablanca
	1	HJMX		R. Mancomoján, Carmen de Bolívar
	1	HJNL		R. Sintonía, Villa María
	5	HJPM		R. Galeón, Sta Marta
	0.5	HCLV3	Ecuador	R. Luz y Vida, Loja
	2	CX46	Uruguay	R. América, Montevideo
	1/0.25	CW145		R. Arapey, Salto
	5	YVJJ	Venezuela	R. Landia, Catia La Mar
	5	YVZQ		R. Visión Alegre, Tablaso (Maracaibo)
1452	0.5	HCHW2	Ecuador	R. Rey, Quevedo (nf 1450)
1460	1	LT29	Argentina	R. Venado Tuerto, o
	0.25	LU30		R. Maipú, o
	0.25	LW2		R. Em. Tartagal, o
	1/0.25	ZYF49	Brazil	R. Cult. Porto Novo, Além Paraíba, MG
	1/0.25	ZYF215		R. Cult. de Sete Lagoas, o, MG
	1/0.25	ZYD87		R. Dif. do Mimoso do Sul, o, ES
	1/0.25	ZYE99		E. A Voz de Catanduva, o, SP
	1/0.25	ZYE98		R. Cult. de Lorena, o, SP
	1/0.25	ZYE232		R. Cl. de Oswaldo Cruz, o, SP
	1/0.25	ZYS64		R. Cult. de Apucarana, o, PR
	1/0.25	ZYS85		R. Goioerê, o, PR
	1/0.25	ZYE214		R. Jacarezinho, o, PR
	1/0.25	ZYE377		R. Dif. Paranaguá, o, PR
	1/0.25	ZYE213		R. Central do Paraná, Ponta Grossa, PR
	1/0.25	ZYT48		R. Coroado, Curitibanos, SC
	1/0.25	ZYH		R. Guaruja Orleães, SC
	1/0.25	ZYH267		R. Cultura, Bagé, RS
	1/0.25	ZYH61		R. Montenegro, o, RS
	1/0.25	ZYH314		R. Colonial, Três de Maio, RS
	1/0.25	ZYH316		R. Charrua, Uruguaiana, RS
	1/0.25	ZYF34		R. Morrinhos, o, GO
	10	CA146	Chile	R. Antofagasta, o (vf)
	10	CB146		R. Dimensión 146, Stgo

kHz	kW	Call	Country	Station/Location
1460	1	CC146		R. Talcahuano, o
	5	HJAL	Colombia	R. Sincelejo, o (vf)
	1	HJBA		La Voz de Pamplona, o
	1	HJBQ		R. Fundación, o
	1	HJFL		Atalaya Agustiniana, San Agustín
	2	HJJW		Nuevo Continente, Bogotá
	1	HJMN		La Voz de Amalfi, o
	1	HJTS		R. Monumental, Villa del Rosario
	10	HJZU		R. Nariño, Pasto
	1	OAX1V	Peru	R. Sullana ("La Voz de Chira"), Sullana
	0.5	OAX3C		R. Huánuco, o
	1	OBX3A		R. Chimú, Chimbote
	0.5	OCY4I		R. 1460, Junín
	2.5	OAX5K		R. Internacional, Pisco
	1	OAX6C		R. Bahía, Mollendo
	1	OAZ7W		R. El Sol de los Andes, Juliaca
	0.25	CW46B	Uruguay	Liceo de Dolores, Soriano
	0.03	CW146		Liceo de Castillos, Castillos
1464	1	HJTF	Colombia	Ondas del Darién, Turbo (nf 1460)
1465	3	HCDY4	Ecuador	R. Iris, Esmeraldas
	5	HCLC6		R. Nuevos Horizontes, Latacunga
1470	1/0.5	LT13	Argentina	R. Oberá, o
	1/0.5			R. Junín, o
	1	LT26		R. Nuevo Mundo, Colón
	1/0.5	LT28		R. Rafaela, o
	1	LT43		R. Mocoví, Charata
	1	CP8	Bolivia	R. Nueva América, La Paz
	1/0.25	ZYV63	Brazil	R. Dif. de Ituiutaba, o, MG
	1/0.25	ZYV86		R. Cl. de Três Pontas, o, MG
	1/0.25	ZYR208		R. Cult. de Guaíra, o, SP
	1/0.25	ZYE286		R. Cl. de Jacareí, o, SP
	1/0.25	ZYE288		R. Cult. de Jales, o, SP
	1/0.25	ZYR262		R. Primavera, Porto Ferreira, SP
	1/0.25	ZYR42		R. Cl. Vera Cruz, o, SP
	1/0.25	ZYS59		R. Cult. Norte Paranaense, Paranavaí, PR
	1/0.25	ZYH7		R. Catarinense, Joaçaba, SC
	1/0.25	ZYH93		Em. São, José, Mafra, SC
	1/0.5	ZYH251		R. Jornal A Verdade, São José, SC
	1/0.25	ZYH76		Em. Reunidas R. Cult, Sta Cruz do Sul, RS
	1/0.25			R. Em. São Pedrense, São Pedro do Sul, RS
	1/0.25	ZYH224		Em. Sarandiense, Sarandi, RS
	0.25	CB147	Chile	R. Transandina, Los Andes
	5	HJHT	Colombia	Em. Valles Unidos, Pacho
	1	HJIF		R. Tres Fronteras, Pto Assís
	15	HJIM		R. Ya, Medellín
	1	HJNT		R. Pinta, Palmira
	1	HJOD		R. Rodadero, Sta Marta
	1	HJSO		Brisas del Tolima, Purificación
	2	HJTB		Ondas de Ibagué, o
	1	HCEC1	Ecuador	Ecos de Cayambe, o
	0.25	HCHB2		R. Novedades, Babahoyo
	1	OCX4D	Peru	R. Huancayo, o
	10	OBX4E		R. Inca del Perú, Lima (vf)
	1	OAX7G		R. Cuzco, o
	1.5	CX147	Uruguay	R. Montevideo Canelones en El Eter, Las Piedras
		CW147		R. Tacuarí, Melo
	5	YVJW	Venezuela	R. Latina, Valencia
1475	0.5	HCBS3	Ecuador	R. Melodía, Pasaje
	0.5	OAX4P	Peru	R. Pasco, Cerro de Pasco (nf 1490)
1480	0.25	LT39	Argentina	Em. Victoria, o
	0.25	LU35		R. Balcarce, o
	1/0.5	LV28		R. Río Atuel, Gral. Alvear
	1/0.25	ZYV77	Brazil	Soc. R. Frutal, o, MG
	1/0.25	ZYD47		R. Solimões, Nova Iguaçú, RJ

kHz	kW	Call	Country	Station/Location
1480	1/0.25	ZYR95		R. Técnica de Atibaia, o, SP
	5/0.25	ZYE82		R. Auriverde de Baurú, Baurú, SP
	1/0.25	ZYE424		R. Astorga, o, PR
	1/0.25	ZYS85		R. Educadora, União da Vitória, PR
	1/0.25	ZYH241		R. 26 de Abril, Imaruí, SC
	1/0.25	ZYA5		R. Dif. de Joinville, o, SC
	1/0.25	ZYU47		R. Dif. Garibaldi, o, RS
	1/0.25	ZYU64		R. Soc. Tupanciretã, o, RS
	1/0.25	ZYX26		R. A Voz da Caçula, Três Lagoas, MT
	1	CC145	Chile	R. Libertad, Curicó (nf 1450)
	1	CC148		R. Tomé, o
	1	CD148		R. Baquedaño, Valdivia
	1	HJFC	Colombia	R. Centinela, Pereira
	1	HJPX		Brisas del Mar, Cartagena
	1	HJTC		R. Sonsón, o (vf)
	1	HJTZ		R. Palonegro, Bucaramanga (Lebrija) (vf)
	1	HCJV4	Ecuador	La Voz de Jipijapa, o
	0.5	HCVQ7		La Voz de Quijos, Baeza
	1	ZP20	Paraguay	R. América, San Juan Bautista de las Misiones
	1	ZP23		R. Mariscal Francisco S. López, Bella Vista
	1.5	CW43B	Uruguay	R. Internacional, Rivera
	0.1	CV148		R. Chuy, o
	0.1	CW148		R. Centro, Cardona
1485	1	OAX6K	Peru	R. Tacna, o (nf 1470)
1490	1/0.5	LT42	Argentina	R. del Iberá, Mercedes
	1	LV22		R. Huinca Renancó, o
	1/0.25	ZYH28	Brazil	R. Rio Jaguaribe, Aracati, CE
	1/0.25	ZYL20		Em. Rio São Francisco, Penedo, AL
	1/0.25	ZYD85		R. Jornal Fluminense, Rio Bonito, RJ
	1/0.25	ZYR266		R. Educ. Rural, Fernandópolis, SP
	1/0.25	ZYR243		R. Dif. de Franca, o, SP
	1/0.25	ZYR246		R. Alvorada de Lins, o, SP
	1/0.25	ZYR73		R. Cl. de Santo André, o, SP (vf)
	1/0.25	ZYE93		R. Dif. Colmeia de Campo Mourão, Campo Mourão, PR
	1/0.25	ZYE221		R. Cornélio Procópio, o, PR
	1/0.25	ZYE356		R. Sta Felicidade, Curitiba, PR
	1/0.25	ZYH203		R. Dif. de Criciuma, o, SC
	1/0.25	ZYH256		R. Cult. de Xaxim, o, SC
	1/0.25	ZYH218		R. Liberdade, Cangussú, RS
	1/0.25	ZYU30		R. Cristal, Soledade, RS
	1	CD149	Chile	R. Malleco, Victoria
	1	HJBS	Colombia	R. Orientación, Bogotá
	3	HJCL		R. Garzón, o
	1	HJOJ		La Voz de San Marcos, o
	1	HCMQ1	Ecuador	R. Atahualpa, Quito
	0.5	HCVZ2		R. Atalaya, El Triunfo
	0.5	HCAE4		R. Unión, Esmeraldas
	0.5	HCAI6		La Voz de los Llanganates, Pillaro
	0.2	HCVT7		La Voz de Tena, o
	1	OAX1L	Peru	R. Imperio, Chichlayo
	0.25	OAX5L		R. Consejo Prov. de Abancay, Abancay
	0.3	OAX5N		R. Nazca, o
	5	OAX6Q		R. Surperuana, Arequipa
	1	OAX8J		R. Atlántida, Iquitos
	1.5	CX48	Uruguay	R. Femenina, Montevideo
	0.1	CW149		R. Agradeciada, Mercedes
	2.5	YVSQ	Venezuela	R. Mérida, o
1491	1	HJAY	Colombia	Onda Nueva, Barranquilla (v)
1495	0.5	HCHG2	Ecuador	R. Central, Vinces
	0.5	HCWN5		R. Puruhá, Riobamba
1500	0.25	LT22	Argentina	R. Nueva Era, Pehuajó
1500	0.25	LT34		R. Nuclear, Zárate
	1	LT45		R. San Javier, o
	0.25	LU27		R. Dolores, o
	1	LV25		R. Unión, Bell Ville
	1/0.25	ZYK39	Brazil	R. Pajeu de Educ. Popular, Afogados da Ingazeira, PE
	1/0.25	ZYE90		R. Cacique de São Caetano do Sul, Santos, SP
	10	CA150	Chile	R. Patricio Lynch, Iquique
	0.25	CC150		R. Centenario, San Javier
	5	HJLJ	Colombia	R. Tigre, Cali
	1	HJMP		La Voz de Aguachica, o
	1	HJTW		R. Sumapaz, Fusagasugá
	1	HJZH		R. Disco, Medellín
	1	HCRO1	Ecuador	R. Otavalo, o
	0.7	HCUE3		R. Uno, Santa Rosa
	0.5	HCAD4		R. Satélite, El Carmen
	0.35	HCLD4		R. Junín, o
	10	OBX4I	Peru	R. Santa Rosa, Lima
	1	OAX6I		R. Moquegua, o (ts)
1505	1	HJBV	Colombia	R. Canoa, Cartagena (Turbaco) (nf 1540) (vf)
	2.5	HCVC3	Ecuador	R. Centinela del Sur, Loja
1509	0.25	CW47B	Uruguay	R. Berna, Nueva Helvecia (nf 1510)
1510	0.25	LU36	Argentina	R. Coronel Suárez, o
	0.25	LV21		R. Champaquí, Villa Dolores
	0.25	LW4		R. Orán, o
	0.25	CP1	Bolivia	R. Chuquisaca, La Paz
	0.1	CP76		La Voz Católica de Cinti, Camargo
	0.25	CP79		R. La Voz Nacional, Tarija
	0.25	CP80		R. Litoral, Cochabamba
	0.25	CP101		R. Suipacha, Villazón
	1	CP121		R. Cetcar, Oruro
	1/0.25	ZYA77	Brazil	R. Dif. do Maranhão, Floriano, PI
	1/0.25	ZYB68		R. Iracema de Fortaleza, Iguatú, CE
	1/0.25	ZYV78		R. Cl. de Curvelo, o, MG
	1/0.25	ZYV72		R. Cult. de Monlevade, João Monlevade, MG
	1/0.25	ZYN4		R. Soc. de Passos, o, MG
	1/0.25	ZYF221		R. Sete Colinas de Uberaba, Uberaba, MG
	1/0.25	ZYD		R. Educ. Caitaca, Campos, RJ
	1/0.25	ZYL2		R. Teresópolis, o, RJ
	1/0.25	ZYE351		R. Brasil, Adamantina, SP
	1/0.25	ZYE204		R. Bebedouro, o, SP
	1/0.25	ZYE267		R. Bandeirantes, Cachoeira Paulista, SP
	1/0.25	ZYR45		R. Dif. de Mirassol, o, SP
	1/0.25	ZYE218		R. Arapongas, o, PR
	1/0.25	ZYE365		R. Dif. Cruzeiro do Oeste, o, PR
	1/0.25	ZYE417		R. Cultural, Irati, PR
	1/0.25	ZYS52		R. Soc. Centenário, Venceslau Bras, PR
	1/0.25	ZYP9		R. Jaraguá, Jaraguá do Sul, SC
	1/0.25	ZYH340		R. Dif. Sta. Catarina, Lages, SC
	1/0.25	ZYG47		R. Dif. Paranaibense, Paranaíba, MT
	1/0.25	ZYF238		R. Cultura, Ceres, GO
	1	CC151	Chile	R. Rancagua, o
	1	CD151		R. Arauco, Lebu
	1	HJHX	Colombia	La Voz Panaméricana, Floridablanca (Bucaramanga)
	1	HJLE		R. Armero, o
	1	HJZA		R. Estrella, Armenia
	1	HCRB2	Ecuador	La Voz del Litoral, Guayaquil
	1	OCX4J	Peru	R. Tarma, o
	0.3	OCX4V		R. Fessa, Cañete
	1	OAX6M		R. Universidad, Arequipa (ts)
	1	OBX7P		R. El Sur del Perú, Cuzco
	0.1	CW57	Uruguay	R. San Carlos, o

kHz	kW	Call	Country	Station/Location
1510	0.1	CW151		R. San Gregorio, San Gregorio de Polanco
1520	0.25	LT25	Argentina	R. Guaraní, Curuzú Cuatiá
	0.25	LT37		Em. Rufino, o
	1	LV24		R. Manantiales, Tunuyán
	0.25	CP102	Bolivia	R. 27 de Diciembre, Villa Montes
	1/0.25	ZYB70	Brazil	R. Iracema de Fortaleza, Maranguape, CE
	1/0.25	ZYV52		R. Correio da Serra, Barbacena, MG
	1/0.25	ZYF90		R. Cl. de Itauna, o, MG
	1/0.25	ZYU3		R. São Lourenço, o, MG
	1/0.25	ZYF224		R. Educ. e Cultural de Uberlândia, o, MG
	1/0.25	ZYD79		R. Cl. Fluminense, São João do Meriti, RJ
	1/0.25	ZYJ8		R. Cl. de Itapeva, o, SP
	1/0.25	ZYE296		R. Marabá, Mogi das Cruzes, SP
	1/0.25	ZYG8		R. Dif. de Olímpia, o, SP
	1/0.25	ZYE74		R. Pato Branco, o, PR
	1/0.25	ZYH208		R. Caçanjuré, Caçador, SC
	1/0.25	ZYH74		R. Dif. de Imbituba, Henrique Lage, SC
	1/0.25	ZYH62		R. Tapense, Tapes, RS
	1	CC152	Chile	R. Soberanía, Linares
	1	CD152		R. Aníbal Pinto, Lautaro
	1	HJLI	Colombia	R. Latina, Bogotá
	1	HJLQ		R. Minuto, Barranquilla
	1	HJLS		R. Popayán, o
	1	HJMA		La Voz del Suroeste, Jericó
	1	HJMZ		Ecos de la Sierra Flor, Sincelejo
	3	HCJJ2	Ecuador	R. Punto Verde, Quevedo
	0.5	HCEB4		R. Manta, o
	0.25	HCRI5		La Voz de Guamote, o
	1	OAX1C	Peru	R. Délcar, Chiclayo
	0.5	OAZ4D		R. Minería, La Oroya
	1	OBX4D		R. Reloj, Lima
	2	CX152	Uruguay	R. Cerro Largo, Melo
1530	0.1	LU25	Argentina	R. Carhué, o
	5	LW5		R. Libertador Gral. San Martín, Ledesma
	0.25	CP111	Bolivia	R. Emis. Ballivián, San Borja
	0.5	CP116		R. Cosmos, Cochabamba
	1/0.25	ZYB53	Brazil	R. Educ. Jaguaribana, Limoeiro do Norte, CE
	1/0.25	ZYB90		R. Bituri, Belo Jardim, PE
	1/0.25	ZYV33		R. Diamantinense, Diamantina, MG
	1/0.25	ZYV22		R. Cult. de Dores do Indaiá, o, MG
	1/0.25	ZYE257		R. Dif. de Assis, o, SP
	1/0.25	ZYE216		R. Barretos, o, SP
	1/0.25	ZYE225		R. Jornal, São Bernardo do Campo, SP
	1/0.25	ZYE411		R. Dif. de Tatuí, o, SP
	1/0.25	ZYE337		R. Brasil, Tupi Paulista, SP
	1/0.25	ZYR205		R. Iperoig, Ubatuba, SP
	1/0.25	ZYE383		R. Guaçu de Toledo, Toledo, PR
	1/0.25	ZYD3		R. Dif. União, União da Vitória, PR
	1/0.25	ZYH9		R. Dif. de Itajaí, o, SC
	1/0.25	ZYH337		R. Dif. São Joaquim, o, SC
	1/0.25	ZYH97		R. Cult. Cruz Alta, RS
	1/0.25	ZYH33		R. Itaqui, o, RS
	1/0.25	ZYF56		R. Dif. de Jataí, o, GO
	1	CA153	Chile	R. Juan Godoy, Copiapó
	1	CB153		R. San Martín, Quillota
	1	CC153		R. El Carbón, Lota
	1	HJON	Colombia	Em. HJDN del Sistema Colibrí, Medellín
	1	HJGD		Reina de Colombia, Chiquinquirá
	1	HJJB		R. Sevilla, o
	1	HJPF		Ritmos de Melgar, Melgar
	1	HCVR1	Ecuador	R. Cordillera, Quito
	1	HCMP2		La Voz de la Península, La Libertad
1530	1	HCRC1		R. Colosal, Ibarra (nf 1520)
	0.36	HCNI4		La Voz de San Lorenzo, o
	5	HCCC5		Ondas Cañaris, Azogues
	0.5	HCMZ6		La Voz del Dorado, Pelileo
	1	OBZ4S	Peru	R. Quince Cincuenta ("La Nueva Voz del Centro"), Huancayo
	0.2	CV153	Uruguay	R. Rincón, Fray Bentos
	1	CW153		R. Tacuarembó, o
1531	1.2	CX50		R. Independencia, Montevideo (nf 1530)
1532	5	HCHG3	Ecuador	R. El Sol, Machala (nf 1530)
1535	1	HCMH6		Org. Radiofónica del Cotopaxi, Latacunga
1540	0.25	LT35	Argentina	R. Mon, Pergamino
	0.25	LU28		R. Tuyú, General Madariaga
	0.25	LU37		R. General Pico, o
	1/0.25	ZYC50	Brazil	R. Cl. de Conquista, Valença, BA
	1/0.25	ZYQ2		R. Cl. de Minas Gerais, Conselheiro Lafaiete, MG
	1/0.25	ZYF216		R. Cl. de Três Corações, o, MG
	1/0.25	ZYD43		R. Três Rios, o, RJ
	1/0.25	PRF8		R. Em. de Botucatu, o, SP
	1/0.25	ZYE72		R. Bom Jesús, Siqueira Campos, PR
	1/0.25	ZYH295		R. Osório, o, RS
	1/0.25	ZYW9		R. Palmeira, Palmeira das Missões, RS
	1/0.25	ZYU26		R. Dif. Sul do Brasil, Santiago, RS
	1/0.25	ZYF36		R. Jornal de Inhumas, o, GO
	1	CB154	Chile	R. Sudamérica, Santiago
	0.25	CD154		R. San José de Alcudia, Río Bueno
	1	HJHD	Colombia	La Voz del Petróleo, Barrancabermeja (vf)
	2.5	HJRQ		R. Austral, Túquerres
	1	HJZF		R. Cóndor, Manizales
	1	HCVB7	Ecuador	La Voz del Upano, Sucúa
	1	OBX1B	Peru	La Voz de la Frontera, Tumbes
	0.15	OAZ4N		R. San Pedro, Mala (ts)
	0.5	OBX4N		R. Corporación, Cerro de Pasco
	0.5	OBZ4U		R. Barranca, o
	0.5	OBX6D		R. Mundial, Arequipa
	0.25	CX154	Uruguay	R. Olimar, Treinta y Tres
	0.1	CV154		R. Guichón, o
1545	0.5	HCDP1	Ecuador	R. Caracol, Quito
	0.25	HCAA3		La Voz de Gonzanamá, o
1550	0.25	LT19	Argentina	R. Min. de Santo Tomé, o
	0.25	LT23		R. San Jenaro Norte, o
	0.25	LT32		R. Chivilcoy, o
	0.25	LT40		R. La Voz de La Paz, o
	0.25	LU34		R. Pigüé, o
	0.5	CP50	Bolivia	R. Pío XII, Siglo Veinte
	1	CP115		R. Caranavi, o
	1/0.25	ZYN40	Brazil	R. Regional, Vitoria da Conquista, BA
	1/0.25	ZYF53		R. Cult. de Divinópolis, o, MG
	1/0.25	ZYV25		R. Cult. de Rio Branco, Visconde do Rio Branco, MG
	1/0.25	ZYD48		R. Campista Afonsiana, Campos, RJ
	1/0.25	ZYR29		R. Cacique de Sorocaba, Capivari, SP
	1/0.25	ZYQ6		R. Cl. Marconi, Paraguaçú Paulista, SP
	1/0.25	ZYE94		R. São Joaquim, São Joaquim da Barra, SP
	1/0.25	ZYE231		R. Dif. Apucarana o, PR
	1/0.25	ZYE367		R. Princesa, Francisco Beltrão, PR
	1/0.25	ZYT3		R. Araranguá, o, SC
	1/0.25	ZYH254		R. Cl. de São João Batista, o, SC
	1/0.25	ZYH290		R. Cacique, Lagoa Vermelha, RS

kHz	kW	Call	Country	Station/Location
1550	1/0.25	ZYU2		R. Marajá, Rosario do Sul, RS
	1/0.25	ZYH53		Em.Sul Brasileira, Santa Rosa, RS
	0.1	CB155	Chile	R. Provincial, Putaendo
	0.25	CC155		R. Manuel Rodríguez, San Fernando
	0.25	CD155		R. Traiguén, o
	5	HJAX	Colombia	R. 15-50 ("La Voz Porteña"), Barranquilla
	1	HJGY		R. Magangué, o (vf)
	5	HJLT		R. Farallones, Cali
	1	HJQD		R. Reloj del Quindío, Calarcá
	15	HJZI		R. Fantasia, Bogotá
	1	HJZX		R. Copacabana, o
	0.25	HCET2	Ecuador	R. El Triunfo, o
	1	HCAD5		La Voz de Chaguarurco, Santa Isabel
	0.5	OBX4P	Peru	R. Independencia, Lima
	0.5	OBX5J		R. San Cristóbal de Huamanga, Ayacucho
	1/0.25	CX155	Uruguay	R. Carmelo, o
	0.25	CV155		R. Atlántica, Castillos
	0.25	CW155		R. Sarandí del Yi, o
1555	2	HCTR3	Ecuador	La Voz del Guabo, El Guabo
1560	0.25	LT33	Argentina	R. Nueve de Julio, o
	0.25	LT38		R. Gualeguay, o
	1/0.25	ZYV34	Brazil	R. Cult. de Itabirito, o, MG
	1/0.25	ZYF95		R. Cult. d'Oeste, Lavras, MG
	1/0.25	ZYK5		R. Soc. de Leopoldina, o, MG
	1/0.25	ZYV20		R. Soc. de Manhuaçú, o, MG
	1/0.25	ZYD45		R. Siderurgica Nacional, Volta Redonda, RJ
	1/0.25	ZYE270		R. Em. de Campos do Jordão, o, SP
	1/0.25	ZYE219		R. Cl. de Ourinhos, o, SP
	1/0.25	ZYE407		R. Colmeia, Capanema, PR
	1/0.25	ZYW39		R. Alvorada de Rialma, o, GO
	1/0.25	ZYF40		R. Dif. Brasileira, Rio Verde, GO
	0.1	CC156	Chile	R. Central, San Carlos
	2	HJCP	Colombia	R. Galaxia, Arbeláez
	1	HJHE		Voces Rovirences, Malaga
	1	HJXZ		Nuevo Medellín, Poblado
	1	HJLP		R. Espacial, Tuluá (vf)
	1	HJPZ		R. Codazzi, o
	0.5	HCZD1	Ecuador	Ecos Culturales, Urcuquí
	0.5	HCCS2		Centro Radiofónico Sideral, Daule
	1	HCVI5		La Voz de Ingapirca, Cañar
	2	HCEI6		R. Cosmopolita, Ambato
	1	OAX2X	Peru	R. Primavera, Trujillo
	1	OCX4F		R. Mundo, Huancayo
	0.1	CX156	Uruguay	Dif. Americana, Trinidad
	1	CV156		R. Vichadero, o
1561	2	CW51		R. Maldonado, o (nf 1560)
1570	1	CP132	Bolivia	R. Continental, La Paz
	0.25	CP162		R. Batallón Topater, Oruro
	1/0.25	ZYF49	Brazil	R. Cult. de Alfenas, o, MG
	1/0.25	ZYF60		R. Cult. de Uberlândia, o, MG
	1/0.25	ZYD59		R. Cl. de Valença, o, RJ
	1/0.25	ZYR258		R. Cultura, Assis, SP
	1/0.25	ZYE412		R. Avaré, o, SP
	1/0.25	ZYE289		R. Junqueirópolis, o, SP
	1/0.25	ZYE442		R. Em. ABC, Santo André, SP
	1/0.25	ZYE415		R. Nossa Senhora do Socorro, Socorro, SP
	1/0.25			R. Em. Atalaia, Guarapuava, PR
	1/0.25	ZYS22		R. Soc. Monte Alegre, Telêmaco Borba, PR
	1/0.25	ZYR4		R. Rio Negrinho, o, SC
	1/0.25	ZYH255		R. Videira, o, SC

kHz	kW	Call	Country	Station/Location
1570	1/0.25	ZYH269		R. Caçapava, Caçapava do Sul, RS
	1/0.25	ZYH288		R. Marabá, Iraí, RS
	1/0.25	ZYH52		R. Cult. Jugarão, Santa Vitória do Palmar, RS
	1/0.25	ZYH4		R. Dif. Sul do Brasil, São Luis Gonzaga, RS
	1	CB157	Chile	R. Sargento Aldea, San Antonio
	1	CC157		R. O'Higgins, Rancagua
	1	HJHF	Colombia	R. Andina, El Palenque
	1	HJIP		La Voz de la Música, Envigado (Medellín)
	1	HJZT		La Voz de los Fundadores, Manizales
	0.25	HCAB3	Ecuador	Ondas de Paltas, Catacocha
	1	HCVJ3		La Voz de la Juventud, Pasaje
	0.1	CX157	Uruguay	R. Canelones, o
	0.25	CW52		R. Litoral, Fray Bentos
	0.5	CW157		R. Democracia, Cerro Chato
1571	1	CV157		Dif. del Norte, Bella Unión (nf 1570)
1576	1	HJLC	Colombia	La Voz del Banco, El Banco (nf 1580)
	1	HCRF1	Ecuador	La Voz de la Nacionalidad Ecuatoriana, Quito (nf 1580)
1580	0.25	LT27	Argentina	R. La Voz del Montiel, Villaguay
	0.25	LT36		R. Chacabuco, o
	1/0.25	ZYC27	Brazil	R. Em. Radiovox, Muritiba, BA
	1/0.25	ZYV45		R. Cl. de Passa Quatro, o, MG
	1/0.25	ZYF		R. Cauê, Pedro Leopoldo, M
	1/0.25	ZYE240		R. Franca do Imperador, Franca, SP
	1/0.25	ZYD8		Soc. R. Dif. Sta Cruz Sta Cruz do Rio Pardo, SP
	1/0.25	ZYE357		R. Antoninense, Antonina, PR
	1/0.25	ZYH229		R. Mirador, Blumenau, SC
	1/0.25	ZYU21		R. Sideral, Getúlio Vargas, RS
	1/0.25	ZYH78		R. Dif. Sul do Brasil, Julio de Castilhos, RS
	1/0.25	ZYW20		R. Dif. Brasileira, Itumbiara, GO
	0.25	CA158	Chile	R. Guacolda, Huasco
	0.25	CC158		R. Colchagua, Santa Cruz
	0.05	CD158		R. Continental, Collipulli
	0.05	CD158		R. Millaray, Cañete
	1	HJKF	Colombia	Armonías Zipaquireñas, Zipaquirá
	1	HJNN		Tr. Universal, Cúcuta
	1	HJOE		R. Miraflores, Rovira
	1	HJQZ		R. Principe, Barranquilla
	2	HCVA4	Ecuador	La Estación de la Alegría, Esmeraldas
	2	HCAE5		Ecos del Portete, Girón
	0.1	OAX5M	Peru	R. Huancavelica, o
	1	OBX7Q		R. El Triunfo, Cuzco
	0.5	CW54	Uruguay	Em. del Este, Minas
	0.1	CX158		R. Paso de los Toros, o
	0.5	CW158		R. Reconquista, Rivera
1590	0.25	CP118	Bolivia	R. Eduardo Avaroa, Caranavi
	1/0.25	ZYF248	Brazil	R. Congonhas, o, MG
	1/0.25	ZYL3		R. Cl. de Garça, o, SP
	1/0.25	ZYE348		R. Cambijú, Araucária, PR
	1/0.25	ZYE405		R. Dif. Platinense, Santo Antonio da Platina, PR
	1/0.25	ZYU212		R. São Miguel, Pôrto Lucena, RS
	1/0.25	ZYW33		R. Cult. de Catalão, o, GO
	1/0.25	ZYF		R. Alvorada de Luziania, Formosa, GO
	1	CB159	Chile	R. Aconcagua, San Felipe
	0.25	CC159		R. Rengo, o

kHz	kW	Call	Country	Station/Location
1590	1	HJEA	Colombia	R. Lumbí, Mariquita
	1	HJJQ		R. Zarzal, o
	1	HJTP		R. Iconozo, o
	1	HCRZ1	Ecuador	R. Mensaje, Tabacundo
	0.3	HCPJ2		Ondas de La Libertad, o
	5	OAZ4Z	Peru	R. Agricultura, Lima
	2	CV159	Uruguay	R. Regional, Constitución
	0.25	CX159		R. Real, Colonia (vf)
1595	0.3	HCQT6	Ecuador	R. Viracocha, Quero
1600		CP...	Bolivia	R. Guaypay, Santa Cruz
	0.25	CB160	Chile	R. Reloj, Valparaíso
	0.25	CB160A		R. Chronos, Santiago
1600	0.25	CC160		R. La Hora, Talca
	0.25	CC160A		R. Reloj, Concepción
	0.25	CD160		R. Horario, Temuco
	1	HJJH	Colombia	R. Ciudad Milagro, Armenia
	0.3	HCFM2	Ecuador	R. Consular, El Empalme
	0.25	CW56	Uruguay	Dif. Soriano, Mercedes
	0.25	CX160		R. Río Branco, o
	0.05	CV160		Nueva. Em. Continental, Pando
	0.1	CW160		R. Fortaleza, Rocha (vf)
	10	YVJR	Venezuela	R. Melodía, Barquisimeto

For your notes:

SHORTWAVE STATIONS OF THE WORLD

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For Callsigns please refer to respective countries. For standard Freq. and Time Signal sts, please refer to page 466
Exact power is not known on stations in China and USSR and RFE/RL transmitters. USSR trs, relaying R. Moscow Home and Foreign Services and Peace and Progress broadcasts, are grouped into three areas:
EU=European Area: Armavir, Baku, Ivano-Frankovsk, Kalinin, Kaunas, Kiev, Leningrad, Moscow(3 sites), Orsha, Serpukhov, Simferopol, Starobelsk, Tula, Vinnitsa, Volgograd, Yerevan, Zhigulevsk(near Kuybyshev).
AS=Central Asian Area: Alma Ata, Chita, Dushanbé, Irkutsk, Novosibirsk(2 sites), Sverdlovsk, Tashkent.
FE=Far Eastern Area: Blagoveshchensk, Khabarovsk, Krasnoyarsk, Nikolayevsk, Petropavlovsk(Kamch.), Yakutsk.
Abbreviations: BBC (D/R/S/W)=BBC Daventry/Rampisham/Skelton/Wofferton; DR=Democratic Republic; GDR=German Democratic Republic; RFE/RL=R. Free Europe/R. Liberty with trs in Germany(Fed. Rep), Portugal and Spain; RP=relay R. Peking; SSB=Single Side Band; Ven=Venezuela.

CONVERSION TABLE

Frequency kHz = Wavelength meter

kHz	m	kHz	m	kHz	m	kHz	m	kHz	m	kHz	m	kHz	m
2300	130.4	6170	48.62	9545	31.43	11750	25.53	15155	19.80	15440	19.43	21515	13.94
2400	125.0	6175	48.58	9550	31.41	11755	25.52	15160	19.79	15445	19.42	21520	13.94
2500	120.0	6180	48.54	9555	31.40	11760	25.51	15165	19.78	15450	19.42	21525	13.94
3200	93.75	6185	48.50	9560	31.38	11765	25.50	15170	19.78	17700	16.95	21530	13.93
3300	90.91	6190	48.47	9565	31.36	11770	25.49	15175	19.77	17705	16.94	21535	13.93
3400	88.24	6195	48.43	9570	31.35	11775	25.48	15180	19.76	17710	16.94	21540	13.93
3900	76.92	6200	48.39	9575	31.33	11780	25.47	15185	19.76	17715	16.93	21545	13.92
4000	75.00	7100	42.25	9580	31.32	11785	25.46	15190	19.75	17720	16.93	21550	13.92
4700	63.83	7105	42.22	9585	31.30	11790	25.45	15195	19.74	17725	16.93	21555	13.92
4800	62.50	7110	42.19	9590	31.28	11795	25.43	15200	19.74	17730	16.92	21560	13.91
4900	61.22	7115	42.16	9595	31.27	11800	25.42	15205	19.73	17735	16.92	21565	13.91
5000	60.00	7120	42.13	9600	31.25	11805	25.41	15210	19.72	17740	16.91	21570	13.91
5100	58.82	7125	42.11	9605	31.23	11810	25.40	15215	19.72	17745	16.91	21575	13.90
5950	50.42	7130	42.08	9610	31.22	11815	25.39	15220	19.71	17750	16.90	21580	13.90
5955	50.38	7135	42.05	9615	31.20	11820	25.38	15225	19.70	17755	16.90	21585	13.90
5960	50.34	7140	42.02	9620	31.19	11825	25.37	15230	19.70	17760	16.89	21590	13.90
5965	50.29	7145	41.99	9625	31.17	11830	25.36	15235	19.69	17765	16.89	21595	13.89
5970	50.25	7150	41.96	9630	31.15	11835	25.25	15240	19.69	17770	16.88	21600	13.89
5975	50.21	7155	41.93	9635	31.14	11840	25.34	15245	19.68	17775	16.88	21605	13.89
5980	50.17	7160	41.90	9640	31.12	11845	25.33	15250	19.67	17780	16.87	21610	13.88
5985	50.13	7165	41.87	9645	31.10	11850	25.32	15255	19.67	17785	16.87	21615	13.88
5990	50.08	7170	41.84	9650	31.09	11855	25.31	15260	19.66	17790	16.86	21620	13.88
5995	50.04	7175	41.81	9655	31.07	11860	25.30	15265	19.65	17795	16.86	21625	13.87
6000	50.00	7180	41.78	9660	31.06	11865	25.28	15270	19.65	17800	16.85	21630	13.87
6005	49.96	7185	41.75	9665	31.04	11870	25.27	15275	19.64	17805	16.85	21635	13.87
6010	49.92	7190	41.72	9670	31.02	11875	25.26	15280	19.63	17810	16.84	21640	13.86
6015	49.88	7195	41.70	9675	31.01	11880	25.25	15285	19.63	17815	16.84	21645	13.86
6020	49.83	7200	41.67	9680	30.99	11885	25.24	15290	19.62	17820	16.84	21650	13.86
6025	49.79	7205	41.64	9685	30.98	11890	25.23	15295	19.61	17825	16.83	21655	13.85
6030	49.75	7210	41.61	9690	30.96	11895	25.22	15300	19.61	17830	16.83	21660	13.85
6035	49.71	7215	41.58	9695	30.94	11900	25.21	15305	19.60	17835	16.82	21665	13.85
6040	49.67	7220	41.55	9700	30.93	11905	25.20	15310	19.60	17840	16.82	21670	13.84
6045	49.63	7225	41.52	9705	30.91	11910	25.19	15315	19.59	17845	16.81	21675	13.84
6050	49.59	7230	41.49	9710	30.90	11915	25.18	15320	19.58	17850	16.81	21680	13.84
6055	49.55	7235	41.47	9715	30.88	11920	25.17	15325	19.58	17855	16.80	21685	13.83
6060	49.50	7240	41.44	9720	30.86	11925	25.16	15330	19.57	17860	16.80	21690	13.83
6065	49.46	7245	41.41	9725	30.85	11930	25.15	15335	19.56	17865	16.79	21695	13.83
6070	49.42	7250	41.38	9730	30.83	11935	25.14	15340	19.56	17870	16.79	21700	13.82
6075	49.38	7255	41.35	9735	30.82	11940	25.13	15345	19.55	17875	16.78	21705	13.82
6080	49.34	7260	41.32	9740	30.80	11945	25.12	15350	19.54	17880	16.78	21710	13.82
6085	49.30	7265	41.29	9745	30.79	11950	25.10	15355	19.54	17885	16.77	21715	13.82
6090	49.26	7270	41.27	9750	30.77	11955	25.09	15360	19.53	17890	16.77	21720	13.81
6095	49.22	7275	41.24	9755	30.75	11960	25.08	15365	19.52	17895	16.76	21725	13.81
6100	49.18	7280	41.21	9760	30.74	11965	25.07	15370	19.52	17900	16.76	21730	13.81
6105	49.14	7285	41.18	9765	30.72	11970	25.06	15375	19.51	21450	13.99	21735	13.80
6110	49.10	7290	41.15	9770	30.71	11975	25.05	15380	19.51	21455	13.98	21740	13.80
6115	49.06	7295	41.12	9775	30.69	15100	19.87	15385	19.50	21460	13.98	21745	13.80
6120	49.02	7300	41.09	11700	25.64	15105	19.86	15390	19.49	21465	13.98	21750	13.79
6125	48.98	9500	31.58	11705	25.63	15110	19.85	15395	19.49	21470	13.97	25600	11.72
6130	48.94	9505	31.56	11710	25.62	15115	19.85	15400	19.48	21475	13.97	25700	11.67
6135	48.90	9510	31.55	11715	25.61	15120	19.84	15405	19.47	21480	13.97	25800	11.63
6140	48.86	9515	31.53	11720	25.60	15125	19.83	15410	19.47	21485	13.96	25900	11.58
6145	48.82	9520	31.51	11725	25.59	15130	19.83	15415	19.46	21490	13.96	26000	11.54
6150	48.78	9525	31.50	11730	25.58	15135	19.82	15420	19.46	21495	13.96	26100	11.49
6155	48.74	9530	31.48	11735	25.56	15140	19.82	15425	19.45	21500	13.95		
6160	48.70	9535	31.46	11740	25.55	15145	19.81	15430	19.44	21505	13.95		
6165	48.66	9540	31.45	11745	25.54	15150	19.80	15435	19.44	21510	13.95		

kHz	kW	Stations and Countries
2140		R. Lafayette, Indonesia
2200		Fuzhou, China
2201	0.3	De Hoop, Int. Waters
2297		Hyesan, Korea (DR)
		2300-2498kHz (120 metre band)
2300		R. El Vici, Indonesia
		R. Dirgantara, Indonesia
2307	2.5	RRI Jakarta, Indonesia
2316	0.3	De Hoop, Int, Waters
2320		Yayasan Mesjid, Indonesia
		R. Akaj, Indonesia
	0.25	R. 8 de Setembro, Brazil
2325	0.25	RPDK Cianjur, Indonesia
2330		R. Silicon, Indonesia
2332	5	RRI Jakarta, Indonesia
2336	10	Gwelo, Rhodesia
	0.6	RPDK Tasikmalaya, Indonesia
2340		Fuzhou, China
	0.075	R. Univ, Indonesia (2 sts)
	2	R.W.New Britain, Papua New Guinea
	1	R. Tezulutlan, Guatemala
	1	R. Dif. Itacoaliara, Brazil
	1	Voz del Triunfo, Ecuador
	1	R. Nueva Esparta, Venezuela
2350		Shandong, China
	1	RRI Yogyakarta, Indonesia
2360		R. Telstar, Indonesia
	0.25	R. Maya de Barillas, Guatemala
2370	1	RRI Surabaya, Indonesia
	0.075	R. Univ, Indonesia (3 sts)
		Min Fang, Taiwan
	0.5	Stanley, Falkland Islands
2376	2	R. Chimbu, Papua New Guinea
2380	2.5	RRI Jakarta, Indonesia
		R. Rosa, Indonesia
	0.25	R. Educ. Limeira, Brazil
2390	1	RRI Cirebon, Indonesia
	0.3	La Voz de Atitlán, Guatemala
2400		Suara Kasih, Indonesia
		R. Venus, Indonesia
	1	R. Educ. São José, Brazil
	1	R. Tiempo, Venezuela
2410	2	R. Eastern Highlands, Papua New Guinea
2415		Wenzhou, China
		RPDK Sumedang, Indonesia
2420	0.08	RRI Bandung, Indonesia
	0.5	RRI Singaraja, Indonesia
		R. Quba'a, Indonesia
	0.25	R. São Carlos, Brazil
	1	R. Carajá, Brazil
2425	20	Gwelo, Rhodesia
2428	2	R. New Ireland, Papua, New Guinea
2430		Fuzhou (PLA), China
2431	0.3	RRI Denpasar, Indonesia
2435	1	RRI Palembang, Indonesia
	0.075	R. Cama Jaya, Indonesia
2440	0.6	RRI Surakarta, Indonesia
2442	1	Galei Tsahal, Israel
2450	5	RRI Jakarta, Indonesia
	2	R. W. Highlands, Papua New Guinea
	1	Cultura de Araçatuba, Brazil
2459		R. Angka Rama 813, Indonesia
2460	1	R. Cacique de Soroçaba, Brazil
2464		RDK, Purwokerto, Indonesia
		R. Suara Al-Ichwan, Indonesia
2467		RPDK Blitar, Indonesia
2468	2	R. Northern Dist, Papua New Guinea
2470	1	R. Dif. de Jatai, Brazil
2475		Zhejiang, China
	0.5	R. Angkatan Bersenjata, Indonesia
2480	1	RRI Padang, Indonesia
		R. Antariksa, Indonesia
2490	2	Fuzhou (PLA), China
	2	RRI Ujung Pandang, Indonesia
	1	RRI Semarang, Indonesia
	0.25	R. Educ. Rural, Brazil
		2498-3200kHz
2503	0.25	RDK Bandung, Indonesia
2510	10	Taegu, Korea(Rep.)
2522		RPD, Sukabumi, Indonesia
2525		Jayapura, Indonesia
2600		Fuzhou (PLA). China
2670		Sariwon, Korea (DR)
2695		Chongjin, Korea (DR)
2740		RRI Bandung, Indonesia
2745		Sinuju, Korea (DR)
2765		Pyongsong, Korea (DR)
2775		Hamhung, Korea (DR)
2830		RRI Tanjung Karang, Indonesia
2835		R. El Viva, Indonesia
2850	120/240	Pyongyang, Korea (DR)
2854	0.75	RKPDK Lombok, Timur, Indonesia
2857		RKPDK Magelang, Indonesia
2868	0.25	RPDK Lamongan, Indonesia
2907		RKPDK Gresik, Indonesia
2920	0.25	RPDK Klaten, Indonesia
2960		Jilin, China
3000		Fuzhou (PLA), China
3015	120/240	Pyongyang (SSB), Korea (DR)
3020	0.25	RPDK Kendal, Indonesia
3030		RKPD Surabaya, Indonesia
3033		Wonsan, Korea (DR)
3047	0.25	RKPDK Pasuruan, Indonesia
3055		RKPDK Sampang, Indonesia
3061		RKPDK Surabaya, Indonesia
3076		RKPDK Blora, Indonesia
3105	0.25	RPDK Brebes, Indonesia
3116	0.25	RPDK Serang, Indonesia
3120		RRI Dili, Indonesia
3137		R. Siaran PDK Cikampek, Indonesia
3164	0.5	RKPD, Surabaya, Indonesia
3195	50	Baghdad, Iraq
		3200-3400kHz (90 metre band)
3200	25	TWR, Swaziland
		Fuzhou (PLA), China
		Love Casanova, Indonesia
		R. Venus 2x46, Indonesia
		Massachusetts Club, Indonesia
	10	Peshawar, Pakistan
3204	10	Ibadan (NBC), Nigeria
3205	10	AIR Lucknow, India
	10	RRI Bandung, Indonesia
	2	R. West Sepik, Papua New Guinea
	5	R.Riberião Preto, Brazil
3210	25	Maputo, Mozambique
	10	R. Federación, Ecuador
3215		In'gall, Niger
	0.3	RRI Ujung Pandang, Indonesia
	1	Ondas Panamericanas, Venezuela
3218	0.25	Quelimane, Mozambique
3220	20/120	R.Peking, China
		R. Santosa, Indonesia
	2	R. Morobe, Papua New Guinea
3222	50	Lama-Kara, Togo
3223	10/100	Swaziland Comm. R, Swaziland
	2.5	AIR Simla, India
	1/5	RRI Mataram, Indonesia
3225r	1	La Voz de la Libertad, Dom. Rep.
	0.5	Lins R. Clube, Brazil
	1	R. Occidente, Venezuela
3227	10	ELWA, Liberia
3230	100	RSA/SABC, South Africa
	10	Taipei (BCC), Taiwan
	0.7	El Sol de los Andes, Peru
3232	25	R.TV Congolaise, Congo
	10	Tananarive, Malagasy Rep.
	1	RRI Bukittinggi, Indonesia
3235	10	Beira, Mozambique
	10	AIR Gauhati, India
	0.5	R.Cl. de Marilia, Brazil
	1	R. 1070, Venezuela
3240	25	TWR, Swaziland
	10	Rawalpindi, Pakistan
	10	Quetta, Pakistan
	0.4	R. Turismo, Ecuador
	1	R. América, Peru

kHz	kW	Stations and Countries
3241	1	RRI Ambon, Indonesia
		1RRI Sibolga, Indonesia
3243v	50	Salmon Park, Iraq
3245		Sichuan, China
	2	R. Gulf District, Papua New Guinea
	1	R. Cl. de Varginha, Brazil
	1	R. Libertador, Venezuela
3250	100	SABC, South Africa
	20	RRI Banjarmasin, Indonesia
	1	R. Collasuyo, Peru
3252	1	RRI Merauke, Indonesia
3255	10	ELBC, Liberia
	10/50	AIR Delhi, India
	1	R. Educ de Cariri, Brazil
	1	R. Dif. de Uberlandia, Brazil
	¡	La Voz del Tigre, Venezuela
3259	0.3	Sendai (NHK), Japan
	0.6	Fukuoka (NHK), Japan
	0.6	Kumamoto (NHK), Japan
3260	4	Niamey, Niger
		Guizhou, China
		RKPDK Sumbawa, Indonesia
	2	R. Madang, Papua New Guinea
	2	La Voz del Rio Carrizal, Ecuador
3265	100	Maputo, Mozambique
	0.5	Rarotonga, Cook Islands
	1	R. Cult. Poços de Caldas, Brazil
	1	R. Tamandaré, Brazil
	2	R. Demerara, Guiana
3268	2	AIR Kohima, India
3270	120/240	R. Peking, China
	1.5	R. Cosmopolita, Ecuador
3275	100	Beira, Mozambique
	25	TWR, Swaziland
	7.5	RRI Medan, Indonesia
		R. Kumuras Thana, Indonesia
		R. Guntur I.B.29, Indonesia
	2	R. So. Highlands, Papua New Guinea
	1	Bauru R. Clube, Brazil
	1	R. Mara, Venezuela
3277	7.5	R. Kashmir, Srinagar, India
	7.5	RRI Jakarta, Indonesia
3280	1	La Voz del Napo, Ecuador
3285	100	SABC, South Africa
	100	Kabul, Afghanistan
	1	R. Olinda, Brazil
	1	R. Puerto Cabello, Venezuela
3286	1	RRI Madiun, Indonesia
	2.5	Phil. Bc. Sce, Philippines
3288	4	Tananarive, Malagasy Rep.
3290	0.04	Tristan da Cunha
	20/120	R. Peking, China
	2	R. Central, Papua New Guinea
	1	La Voz de Alausí, Ecuador
	10	Action Radio, Guyana
3295	10	Lusaka, Zambia
	20	AIR Delhi, India
	10	AIR Bombay, India
	7.5	RRI Samarinda, Indonesia
3295	1	R. Tapuió, Brazil
	1	R. Trujillo, Venezuela
3300	1	Bujumbura, Burundi
	20	Libreville, Gabon
		Fuzhou (PLA), China
		R. Kotamadya Daerah, Indonesia
	10	Islamabad, Pakistan
	1	R. Belize, Belize
	5	R. Grenada, Grenada
	10	R. Cultural, Guatemala
	1	La Voz de Agoyán, Ecuador
	0.5	R. Junin, Peru
3305	10	AIR Ranchi, India
	1	RRI Bukittinggi, Indonesia
	0.35	RKPDK, Surabaya, Indonesia
		RKPD Jatim, Indonesia
	10	R. Western District, Papua Neew Guinea
	2.5	R. Cl. do Grande Rio, Brazil
3306	100	Gwelo, Rhodesia
3310		Jilin, China
3315	10	AIR Bhopal, India
	4	Fort de France, Martinique
3315	2.5	R. Ass. Cetarense, Brazil
	2	R. Pastaza, Ecuador
	1	R. Maracay, Venezuela
3316	50	Freetown, Sierra Leone
3320	100	SABC, South Africa
	120/240	Pyongyang, Korea (DR)
	1	R. Estrella del Sur, Peru
3322	10	R. Bougainville, Papua New Guinea
3325	1	RRI Jember, Indonesia
		RRI Jayapura, Indonesia
	1	R. Maya de Barillas, Guatemala
	2.5	R. Gazeta, Brazil
	1.5	Ondas Quevedeñas, Ecuador
	4	R. Monagas, Venezuela
3330	5	R. Rwanda, Rwanda
	1.5	Ondas del Huallaga, Peru
3331	4	Moroni, Comoro Islands
3335	1	RRI Banda Aceh, Indonesia
	10	Taipei (BCC), Taiwan
	10	R. East Sepik, Papua New Guinea
	2.5	R. Cl. de Conquista, Brazil
	1	R. Educ. Rural, Natal, Brazil
3336	4	Ziguinchor, Senegal
3338	10	Maputo, Mozambique
3339	10	Zanzibar, Tanzania
3340	7.5	Kampala, Uganda
		R. Bharata Yudha, Indonesia
	1	R. Viloco, Bolivia
	2	Ondas del Mar, Ecuador
3342	10	RDK Pandeglang, Indonesia
3344	1	RRI Manokwari, Indonesia
3345	10	Em. Regional do Huambo, Angola
	2	R. Kashmir, Jammu, India
	10	RRI Pontianak, Indonesia
	1	FEBC, Philippines
	0.35	4VEH, Haiti
	5	R. Educ. Uberlândia, Brazil
	2.5/10	R. Cult. de Sergipe, Brazil
3346	120	Lusaka, Zambia
3350	20	Franceville, Gabon
	20	Ejura, Ghana
	1	R. Independencia, Peru
3355	10	R. Ecclesia, Angola
	7.5	Nampula, Mozambique
	20	AIR Kurseong, India
	10	AIR Hyderabad, India
	1	RRI Sumenep, Indonesia
	20	R. Noumea, New Caledonia
	2.5	R. Industrial, Brazil
	1	R. Cenit, Ecuador
	1	R. Impacto, Venezuela
3356	10	R. Gaborone, Botswana
3360		RRI Padang, Indonesia
		RDK Lahat, Indonesia
	10	R. Milne Bay, Papua New Guinea
	1	La Voz de Nahualá, Guatemala
	5	R. Federación, Guatemala
	0.25	R. Huánuco, Peru
3365	10	AIR Delhi, India
	1	R. Exitos, Dom. Rep.
	0.5	R. Educ. de Parnaíba, Brazil
	1	R. Cult de Araraquara, Brazil
	1	R. Puerto la Cruz, Venezuela
3366	10	Accra, Ghana
	0.25	Nampula, Mozambique
3367		R. Angkatan B. Medan, Indonesia
3370	10	Beira, Mozambique
3375	10	R. Nacional, Luanda, Angola
	10	AIR Gauhati, India
	1	RRI Jambi, Indonesia
	1	R. San Juan, Dom. Rep.
3375r	1	Bauru R. Clube, Brazil
	1	R. Melodia, Ecuador
	3	La Voz de la Fé, Venezuela
3377	0.3	Osaka (NHK), Japan
3380	100	Blantyre, Malawi
	1	RRI Malang, Indonesia
	1	R. Chortis, Guatemala
		R. Cumbre, Bolivia
	10	R. Iris, Ecuador
3385	10	RRI Kupang, Indonesia

kHz	kW	Stations and Countries
3385		RRI Pangkaepinang, Indonesia
	10	Miri, Sarawak
	10	R. Ea. N. Britain, Papua New Guinea
	4	Cayenne, French Guiana
	2.5	R. Congonhas, Brazil
	2.5	R. Juazeiro, Brazil
	1	R. Educ. Rural, Brazil
	0.5	R. Dif del Centro. Peru
	1	R. Barcelona, Venezuela
3390	10	Kabul, Afghanistan
		R. Peking, China
		R. Camargo, Bolivia
	5	R. Zaracay, Ecuador
3391	0.5	RRI Singaraja, Indonesia
3395		R. Gandaria BCS, Indonesia
	10	Colombo, Sri Lanka
	1	R. Universidad, Venezuela
3396	10	Kaduna (NBC), Nigeria
	100	Gwelo, Rhodesia
3400		Fuzhou (PLA), China
		3401-3999kHz
3405	1	R. Xapurí, Brazil
3408	2.5	R. Angkatan Bersenjata, Indonesia
3414	7.5	RRI Medan, Indonesia
3425	100	Kathmandu, Nepal
3433	0.6	RPDK Kediri, Indonesia
3440	1	R. 27 de Diciembre, Bolivia
3445	0.15	RRI Purwokerto, Indonesia
3450	20/120	R. Peking, China
3453	0.25	RPDK Bima, Indonesia
3473	0.55	RKPDK Jombang, Indonesia
3484	0.11	RKPDK, Pamekasan, Indonesia
3496	0.3	R. Alfonso Padilla Vega, Bolivia
3500		R. Peking, China
	1	La Voz de la Frontera, Ecuador
3514	0.5	R. Niaga dan Budaya, Indonesia
3515	0.2	R. Centro, Ecuador
3522	16	R. Maldives, Maldives
3535		Fuzhou (PLA), China
3541		RKPDK Bangkalan, Indonesia
3550		RRI Kupang, Indonesia
3552r	1	R. Dif. la Convención, Peru
3560	120/240	Pyongyang (SSB), Korea (DR)
3578		RPDK, Situbondo, Indonesia
3607	0.6	Hiroshima (NHK), Japan
	0.9	Tokyo (NHK), Japan
3612	0.25	RPDK Banjar, Indonesia
3628	0.25	RPDK Tulungagung, Indonesia
3630		RKPDK Banyuwangi, Indonesia
3640		Fuzhou (PLA), China
3700		R. Peking, China
3710		RPDK Pematang Siantar, Indonesia
3762	0.25	RKPDK Tyuban, Indonesia
3778,	0.25	RKPDK Sumbawa, Indonesia
	100	Tehran, Iran
3800	0.25	RKPDK Jember, Indonesia
3805		R. Maubere, Timor, Indonesia
3850		Timor, Indonesia
3866		RKPD Pekalongan, Indonesia
3885	5	R. Cl, Cape Verde Islands
3888		RPDK Batang, Indonesia
3890	120/240	Pyongyang (SSB), Korea (DR)
	50	Karachi, Pakistan
3893	0.9	RPDK Sidoarjo, Indonesia
		3900-4000 kHz (75 metre band)
3900		Fuzhou (PLA, China
		Hailaer, China
		Vientiane, Laos
3905	100	AIR Delhi, India
	0.5	RRI Jayapura, Indonesia
	1	RRI Palangkaraya, Indonesia
	2	R. Manus, Papua New Guinea
3910	10	Tokyo (FEN), Japan
3915	100	BBC Tebrau, Malaysia
	10	Azad Kashmir R., Pakistan
3916	1	RRI Ternate, Indonesia
3918	5	Seoul, Korea
3925	10	AIR Delhi, India

kHz	kW	Stations and Countries
3925	1	RRI Bogor, Indonesia
	50	NSB Tokyo, Japan
	10	NSB Sapporo, Japan
	10	Port Moresby, Papua New Guinea
3930	10	R. Barlavento, Cape Verde Islands
		Chifeng, China
3935	5/10	RRI Semarang, Indonesia
3940		Hubei, China
3945	10	RRI Denpasar, Indonesia
	1	RRI Ternate, Indonesia
	10	NSB Tokyo, Japan
	2	Vila, New Hebrides
3950		Qinghai, China
3952	100	BBC, Gt. Britain
	50	Salmon Park, Iraq
3955	8/100	Warsaw, Poland
	100	SABC, South Africa
3960	10/20	RFE/RL, Germany
		R. Peking, China
	1.5	RRI Palu, Indonesia
	1/10	RRI Padang, Indonesia
3965	4	Allouis, France
	100	SABC, South Africa
	10	Dacca, Bangladesh
	10	RRI Pontianak, Indonesia
	100/250	Islamabad, Pakistan
3970	10/20	RFE/RL, Germany
	100	BBC, Gt. Britain
	1	Em Reg. da Huila Lubango, Angola
	8	R. Buea, Cameroon
		Huhehaote, China
	0.3/0.6	3 sts (NHK), Japan
3973	2.5	R. Cordac, Burundi
3975	100	BBC, Gt. Britain
	10	RRI Surabaya, Indonesia
3980	8	Munich (VOA), Germany
	100	SABC, South Africa
3985	250	Schwarzenburg, Switzerland
		R. Peking, China
	1	RRI Biak, Indonesia
	1	Esc. Radiofónicas, Ecuador
3989	20/100	BBC Limassol, Cyprus
3990		RFE/RL, Germany
	8/250	Monrovia (VOA), Liberia
	100/250	Islamabad, Pakistan
	0.06	R. Tanafo, New Hebrides
3995	10/20	RFE/RL, Germany
	100	Jülich (DW), Germany
	50	R. Roma, Italy
		Kyzýl, USSR
		Nikolayevsk, USSR
	108	RSA/SABC, South Africa
	2.5	RRI Tj. Karang, Indonesia
3997		Hanoi, Vietnam
3999	10	Godthaab, Greenland
		4000-4750kHz
4000	5	RRI Kendari, Indonesia
		Phnom-Penh, Khmer Republic
4010		Frunze, USSR
4020		R. Peking, China
	10	Peshawar, Pakistan
		Islamabad, Pakistan
4030		Anadyr, USSR
4032		Viet Bac, Vietnam
4035		Lasa (RP), China
4040		Yerevan, USSR
		Vladivostok, USSR
		Semipalatinsk, USSR
4045		Fuzhou (PLA), China
4050		Frunze, USSR
		Yuzhno-Sakhalinsk, USSR
		RPD, Asahan, Indonesia
4055		Kalinin, USSR
		Petropavlovsk (Kazak), USSR
4060		RKPDK Bojonegoro, Indonesia
	10	Rawalpindi, Pakistan
4068		Huhehaote, China
4080	50	Ulan Bator, Mongolia
4087	0.25	RPDK Blitar, Indonesia
4103r		Viet Bac, Vietnam

kHz	kW	Stations and Countries
4110		Wulumqi, China
4115		RPDK Garut, Indonesia
4115r		R. Dif. Cruzeiro do Sul, Brazil
4130		R. Peking, China
4140		Fuzhou (PLA), China
		RKPD Kediri, Indonesia
4140r		R. Em. Comarapa, Bolivia
4175r	1	Em. Reg. do Lobito, Angola
4200		R. Peking, China
4220		Xinjiang, China
4245		Vientiane, Laos
4250		R. Peking, China
4278		Kanggye, Korea (DR)
4300	1	RRI Mataram, Indonesia
4310		Chimkent, USSR
4330		RPD Deli Serdang, Indonesia
		Fuzhou (PLA), China
4375	0.25	RPDK Soppeng, Indonesia
4380		Fuzhou (PLA), China
4395		Yakutsk, USSR
4400		Xinjiang (RP), China
4420	5	Kokchetav, USSR
4425	0.25	R.Paititi, Bolivia
4460		R. Peking, China
4465	1	R. Movima, Bolivia
4485		Ufa, USSR
		Petropavlovsk, USSR
4495	0.3	RRI Cirebon, Indonesia
4500		Xinjiang, China
4520	15	Khanty-Mansyisk, USSR
		Palana, USSR
4525		Xilinhhaote, China
4535		R. Suara Magelang, Indonesia
4545		Alma Ata, USSR
4601	0.25	RKPDK Trenggalek, Indonesia
4605		RRI Serui, Indonesia
	1	R. Mamoré, Bolivia
4610		Khabarovsk, USSR
4615		Pavlodar, USSR
4620		R. Peking, China
4635		Dushanbé, USSR
4650	0.36	RPDK Simalungun, Indonesia
4653		Vientiane, Laos
4680	5	R. Nac. Espejo, Ecuador
4698	2	RKIP Surabaya, Indonesia
4701	1	R. San Miguel, Bolivia
4703		Quang Ninh Prov., Vietnam
4713		Hanoi, Vietnam
4718	0.5	R. Riberalta, Bolivia
4719	50	RRI Ujung Pandang, Indonesia
4720r	1	R. Via, Ecuador
4721	1	R. Cl. Mindelo, Cape Verde Islands
4725	50	Rangoon, Burma
4735	100	Karachi, Pakistan
4735r	1	R. Libertad, Brazil
4738	0.5	R. Abaroa, Bolivia
4740	30	R. Maldives, Maldives
		4750-5060kHz (60 metre band)
4750	10	Lubumbashi, Zaire
		Hailaer, China
4750r	1	R. Norte, Dominican Republic
	8	R. El Mundo, Ecuador
4753	5	R. Em., Bolivia
4755	10/25	Beira, Mozambique
	5	R. Emisora, Bolivia
	10/25	R. Educ. Rural, Brazil
	5	R. Dif. do Maranhão, Brazil
	1	Em Nuevo Mundo, Colombia
4759		Kunming, China
4760	15	Dzambul, USSR
	25	TWR, Swaziland
	2.5	AIR Simla, India
	1.5	R. Trópico, Bolivia
	1	R. Tingo Maria, Peru
	1	R. Frontera, Venezuela
4762	50	Ulan Bator, Mongolia
	1	R. Inca, Peru
4764	20/50	RRI Medan, Indonesia
4765	50	R. TV. Congolaise, Congo
4765r	2.5/5	R. Espirito Santo, Brazil
	5	CRE, Ecuador

kHz	kW	Stations and Countries
4768r	10	R. Em. Rural, Brazil
4770	10	R. ELWA, Liberia
	20/120	R. Peking, China
		Tay Bac, Vietnam
	1	R. Bolivar, Venezuela
4771	1	RRI Sibolga, Indonesia
4772	1	R. Cenit, Ecuador
4772r		R. Ayacucho, Peru
4775	100	Kabul, Afghanistan
	10	AIR Gauhati, India
	50	RRI Jakarta, Indonesia
	1	R. Los Andes, Bolivia
4775r		R. Trópico, Bolivia
	1.5	A Voz do Oeste, Brazil
	1	R. Kennedy, Colombia
4777	100	Libreville, Gabon
4780		Petrozavodsk, USSR
	4	R. Djibouti, Afar & Issas
	0.5	R. Juticalpa, Honduras
	1	R. Atahualpa, Ecuador
	1	La Voz de Carabobo, Venezuela
4783	18	Bamako, Mali
4785		Baku, USSR
	50	Dar es Salaam, Tanzania
		Kunming, China
		Islamabad, Pakistan
	1	Onda Musical, Dominican Republic
	0.5	R. Em. Ballivián, Bolivia
	10	R. Caiari, Brazil
	1/5	R. Brasil, Brazil
	5	R. Ribamar, Brazil
	0.5	R. 11 del Noviembre, Ecuador
	1	R. Coop. Satipo, Peru
4790	25	TWR, Swaziland
	10	Dacca, Bangladesh
	0.5	RRI Fak-Fak, Indonesia
	5	Sistema de Em. Atalaya, Ecuador
	1	R. Atlantida, Peru
4795		Ulan Ude, USSR
		Naryn, USSR
	4	R. TV. Congolaise, Congo
	1/5	R. Dif. de Aquidauana, Brazil
	1	R. Tabajará, Brazil
	3	La Voz de los Carás, Ecuador
4797	1	R. Nueva América, Bolivia
4800		Yakutsk, USSR
	10	Maseru, Lesotho
		R. Peking, China
	10	AIR Hyderabad, India
	2	R. Pop. Independiente, Ecuador
	1	R. 15-50, Peru
	10	R. Lara, Venezuela
4804	5	Nairobi, Kenya
4805	20	RRI Jakarta, Indonesia
	0.3	RRI Kupang, Indonesia
	1	R. Norte, Dominican Republic
	10/25	R. Itatiaia, Brazil
4806	10	R. Dif. do Amazonas, Brazil
4807	10	R. Nacional, São Tomé
4808		La Voz de la Frontera, Bolivia
4810		Yerevan, USSR
		Osh, USSR
	100	SABC, South Africa
	5	La Voz de Galápagos, Ecuador
	2	R. Popular, Venezuela
4815	10/25	Beira, Mozambique
	20	Ouagadougou, Upper Volta
		R. Peking, China
	0.5	R. Nacional, Bolivia
	10	R. Dif. do Paraná, Brazil
	1	R. Canal Manabita, Ecuador
	1	R. Samarén, Peru
4820		Khanty-Mansiysk, USSR
	10	R. Nacional, Luanda, Angola
	10	AIR Calcutta, India
	5	La Voz Evangelica, Honduras
	2	R. Paz y Bien, Ecuador
	0.45	R. Puno, Peru
	1	La Voz de Apure, Venezuela
	1	R. Tricolor, Venezuela
4823	1	R. Grigota, Bolivia

kHz	kW	Stations and Countries
4825		Starobelsk, USSR
		Yakutsk, USSR
		Vladivostok, USSR
		Ashkhabad, USSR
	8	La Voz de las Fuerzas Arm., Dominican Republic
	1	R. Mam, Guatemala
	10	R. Dif. Petropolis, Brazil
	5	R. Educ. de Braganca, Brazil
	1	La Voz de la Selva, Peru
	0.5	La Perla del Sur, Peru
4828	10	Gwelo, Rhodesia
4830	20	Franceville, Gabon
		RRI Madiun, Indonesia
	10	R. Thailand, Thailand
	2	R. Luz y Vida, Ecuador
	1	R. Tachira, Venezuela
4832		Shenyang, China
	1	R. Reloj, Costa Rica
4835	100	SABC, South Africa
	10	Kuching, Sarawak
	1	R. Tezulutlan, Guatemala
	1	R. Dif. Teresina, Brazil
	1	R. Tamboral, Colombia
	2	La Voz del Valle, Ecuador
	0.35	R. Sicuani, Peru
4839	10	R. Bukavu, Zaire
4939r	10	R. Dif. Roraima, Brazil
4840		Fuzhou (PLA), China
		Haerbin, China
	10	AIR Bombay, India
	1.8	R. Andahuayalas, Peru
	1	R. Valera, Venezuela
4843	4	Pointe Noire, Congo
4845	10	Gaborone, Botswana
	100	Nouakchott, Mauritania
	10	RRI Ambon, Indonesia
	50	Kuala Lumpur, Malaysia
4845r	1	R. San Isidro, Honduras
	5	R. Fides, Bolivia
	1	R. Bucaramangna, Colombia
	1	R. Sullana, Peru
4850		Tashkent, USSR
	10	Forest Side, Mauritius
		R. Peking, China
	2	AIR Kohima, India
	8	R. Clarin, Dominican Republic
	1	R. Capital, Venezuela
4853	100	San'a, Yemen
	1	R. Centenario, Bolivia
4855	5	Kisumu, Kenya
	10	RRI. Palembang, Indonesia
	1	R. Cobija, Bolivia
	10	R. Cl. do-Pará, Brazil
	1	R. Oriente, Peru
4857	5	Ondas del Zamora, Ecuador
4860		Kalinin, USSR
		Chita, USSR
	5	Em. Reg. da Lunda, Angola
	10	AIR Delhi, India
	7.5	R. Kashmir, Srinagar, India
		Hanoi, Vietnam
	0.25	R. Batallón Topáter, Bolivia
	1	R. Mundial, Ecuador
	1	R. Chinchaycocha, Peru
	10	R. Maracaibo, Venezuela
4865	1	Ponta Delgada, Azores
	7.5	Maputo, Mozambique
	10	Berakas, Brunei
		Gansu, China
	1/5	R. Soc. Feira de Santana, Brazil
	1	La Voz del Cinaruco, Colombia
4870	30	Cotonou, Benin
	10	Colombo, Sri Lanka
	1	R. Santa Cruz, Guatemala
	5	R. Rio Amazonas, Ecuador
	2	R. Tropical, Venezuela
4871	10	RRI Sorong, Indonesia
4873r	18	Bamako, Mali
4875		Uralsk, USSR
	100	SABC, South Africa

kHz	kW	Stations and Countries
4875	10	La Cruz del Sur, Bolivia
	10	R. Jornal do Brasil, Brazil
	5	Ecos del Combeima, Colombia
	5	La Voz de Esmeraldas, Ecuador
4880	10	Kinshasa, Zaire
	10	AIR Lucknow, India
	10	R. Universo, Venezuela
4882	1	R. Comercial, Dominican Republic
		R. Peking, China
4885		Novosibirsk, USSR
	5	Em. Reg. do Zaire, Angola
	10	Mombasa, Kenya
	1	RRI Bukittinggi, Indonesia
	1	R. Sararenda, Bolivia
	5	R. Dif. Acreana, Brazil
4885r	1	R. Tamandaré, Brazil
	1	R. Colo Colo, Chile
	1	Ondas del Meta, Colombia
	1	R. Huancavelica, Peru
4890	25	Dakar, Senegal
	100	Dacca, Bangladesh
	10	Port Moresby, Papua New Guinea
	1	R. Lux, Honduras
	8	R. Centinela del Sur, Ecuador
	0.5	R. San Juan, Peru
	1	R. Durazno, Uruguay
	5	R. Dif, Venezuela
4895	50	Ashkhabad, USSR
	50	Tyumen, USSR
	25/100	Beira, Mozambique
		Huhehaote, China
	20	AIR Kurseong, India
	10	Kuching, Sarawak
	5	R. Baré, Brazil
	10	R. Bahia, Brazil
	0.25	Ondas Orenses, Ecuador
	0.4	R. Chanchamayo, Peru
4896	1	Em. Reg. de Silva Porto, Angola
4900	2.5	R. Cordac, Burundi
	1	RRI Gorontalo, Indonesia
	0.4	La Voz de Saquisilí, Ecuador
	10	R. Juventud, Venezuela
4902	10	Colombo, Sri Lanka
4904	100	Ndjamana, Chad
4905	100	Voice of the Gospel, Ethiopia
		R. Peking, China
	2	La Voz del Atlantico, Honduras
	5	R. Relogio, Brazil
	2	Em. Atlantico, Colombia
	8	La Voz del Zamora, Ecuador
	0.5	R. Yarinacocha, Peru
4907	50	Phnom-Penh, Khmer Republic
4910	18	Conakry, Guinea
	1	R. HIN, Dominican Republic
	10	Emis. Gran Colombia, Ecuador
	1	R. Libertad, Peru
	1	R. Tawantinsuyo, Peru
	1	R. Carora, Venezuela
4911	10	Lusaka, Zambia
4915	10	Accra, Ghana
	100	Nairobi, Kenya
		Nanning, China
	10	R. Dif. de Macapa, Brazil
	10	R. Anhanguera, Brazil
	1	Emis. Rio São Francisco, Brazil
	1	R. Guatapuri, Colombia
4916	0.5	R. El Trebol, Ecuador
4920		Starobelsk, USSR
		Yakutsk, USSR
	10	AIR Madras, India
	5	RRI Palangkaraya, Indonesia
	10	Brisbane, Australia
	10	R. Progreso, Honduras
	5	R. Quito, Ecuador
4923	0.25	Pemba, Mozambique
4924	7.5	Maputo, Mozambique
4925		Haerbin, China
	1/5	R. Dragão do Mar, Brazil,
	1/5	R. Dif. de Taubaté, Brazil
	2.5	Em. Meridiano, Colombia
4926	5	Bata, Equatorial Guinea

kHz	kW	Stations and Countries
4927	7.5	RRI Jambi, Indonesia
4930		Tbilisi, USSR
		Ashkabad, USSR
	1	R. Mil, Dominican Republic
	10	R. Casa del la Cultura, Ecuador
	3	La Voz de la Fe, Venezuela
4932	10	RRI Surakarta, Indonesia
		Hanoi, Vietnam
4934	0.25	R. Consejo Provincial, Peru
4935	100	Islamabad, Pakistan
	1	R. Capixaba, Brazil
	1	R. Villavicencio, Colombia
	1	R. Tropical, Peru
4938	1.5	R. Norte, Bolivia
4940		Kiev USSR
		Frunze, USSR
		Yakutsk, USSR
	25	Abidjan, Ivory Coast
	10	Colombo, Sri Lanka
	1	R. Valle, Honduras
	10	R. Nacional, Ecuador
	0.5	R. San Juan, Peru
	10	R. Yaracuy, Venezuela
4945	2.5	RRI Bandung, Indonesia
	0.15/1	RRI Tj. Pinang, Indonesia
	5	R. Dif. Poços de Caldas, Brazil
	2	Em. Rural, Brazil
	2.5	R. Colosal, Colombia
	1	La Voz de Artigas, Uruguay
4946	5/7.5	Nampula, Mozambique
4950	10	Nairobi, Kenya
	10	R. Kashmir, Jammu, India
	10	Peshawar, Pakistan
	10	Kuching, Sarawak
	1	R. Costa Azuzul, Ecuador
	0.5	R. Ucayali, Peru
	1	R. Coro, Venezuela
4951	0.5	R. Madre de Dios, Peru
4952		Xilinhaote, China
4954	10	RRI Banda Aceh, Indonesia
4955	2	R. Cult de Campos, Brazil
	50	R. Nacional, Colombia
	1	R. Cultural Amauta, Peru
4958		Baku, USSR
	0.25	Nampula, Mozambique
4960		R. Peking, China
	5	R. Federación, Ecuador
	1	R. Sucre, Venezuela
4965	2.5	Lusaka, Zambia
	1	R. Landia, Honduras
	1	R. Animas, Bolivia
	5	R. Triangulo Min, Brazil
	1	R. Potí, Brazil
	5	R. Santa Fé, Colombia
4968	10	Colombo, Sri Lanka
		Wulumqi (RP), China
	10	Kota Kinabalu, Sabah
	3	R. Tarqui, Ecuador
	1	R. Yi, Uruguay
	10	R. Rumbos, Venezuela
4972	30	R. Yaoundé, Cameroon
	1	Cayenne, French Guyana
4975		Blagoveshchensk, USSR
		Dushanbé, USSR
		Fuzhou, China
	2.5	R. Timbira, Brazil
	2.5	Ondas del Orteguaza, Colombia
	4	R. del Pacífico, Peru
4976	7.5	Kampala, Uganda
4979	1.4	R. Juan XXIII, Bolivia
4980	20	Ejura, Ghana
	100	Swaziland Comm. R, Swaziland
		Wuhan, China
	0.25	Ondas Azuayas, Ecuador
	10	Ecos del Torbes, Venezuela
4985		R. Ecclesia, Angola
	4	Tananarive, Malagasy
	20	RRI Ujung Pandang, Indonesia
	10	Penang, Malaysia
	5	R. Brasil Central, Brazil
4990		Yerevan, USSR

kHz	kW	Stations and Countries
4990	10	Lagos (NBC), Nigeria
		Changsha, China
		Islamabad, Pakistan
	0.5	R. Em. Beni, Bolivia
	0.4	R. Píllaro, Ecuador
	15	R. Barquisimeto, Venezuela
4994		Hanoi, Vietnam
4996	1	R. Andina, Peru
5005	10	Sibu, Sarawak
	0.25	R. Jaén, Peru
5007	5	Kathmandu, Nepal
	1	R. Universo, Bolivia
5010	30	R. Garoua, Cameroon
		Nanning, China
	0.15	RRI Palu, Indonesia
	10	Rawalpindi, Pakistan
	10	R. Singapore, Singapore
	1	R. Cristal, Dominican Republic
	2.5	R. Surcolombiana, Colombia
	1	R. Eco, Peru
5015		Arkhangelsk, USSR
		Vladivostok, USSR
	5	R. Cult. de Cuaiba, Brazil
	1	R. Pioneira de Teresina, Brazil
	1	Copacabana, Brazil
5016	20	Gwelo, Rhodesia
5020	20	Niamey, Niger
		Nanchang, China
	10	Miri, Sarawak
	10	Colombo, Sri Lanka
	5	Honiara, Solomon Islands
	1	Ecos del Atrato, Colombia
	0.5	La Voz de Bolivar, Ecuador
	1	R. San Cristobal, Peru
	1	R. Nacional, Venezuela
5025	1	R. Borborema, Brazil
	1	R. Vitória, Brazil
	5	R. Splendit, Ecuador
	5	R. Quillabamba, Peru
5026	7.5	Kampala, Uganda
5030		R. Peking, China
	10	Kuching, Sarawak
	0.4	Nueva Voz del Papagayo, Dominican Republic
5030v	1	Brisas del Citara, Colombia
	10	R. Reloj Continente, Veñezuela
5033	1	Em. Reg. da Cabinda, Angola
5035		Alma Ata, USSR
	1	R. Aparecida, Brazil
	0.5	La Voz de Caqueta, Colombia
	1	R. Ayaviri, Peru
5038	100	Bangui, Central African Rep.
5039	20	Omdurman, Sudan
5040		Tbilisi, USSR
	50	Rangoon, Burma
		Fuzhou, China
	0.05	RRI Wamena, Indonesia
	1	R. Cinco, Colombia
	0.5	R. Nac. Espejo, El Puyo, Ecuador
	1	R. Libertad, Peru
	1	R. Maturín, Venezuela
5041	10	R. Nacional, Guinea-Bissau
5042	1	Em. Reg. de Benguela, Angola
5045	0.5	Rarotonga, Cook Islands
	0.5	R. Dif. Pres. Prudente, Brazil
	1	Ondas Cañaris, Ecuador
5047	100	Lomé, Togo
	20	RRI Yogyakarta, Indonesia
5050	10	Dar es Salaam, Tanzania
	1	La Voz de Yopal, Colombia
	2	R. Loreto, Peru
	2	R. Mundial, Venezuela
5052	50	Ulan Bator, Mongolia
	20	R. Singapore, Singapore,
5055		Chita, USSR
	100	Islamabad, Pakistan
	1	R. Educ. Sobral, Brazil
	1	R. Guanabara, Brazil
	1	R. Católica, Ecuador
	1	Onda Imperial, Peru
5057	50	Gjirokaster, Albania

kHz	kW	Stations and Countries
		5060-5950kHz
5060	10	Em. Reg. do Huambo, Angola
		Wulumqi, China
	10	Islamabad, Pakistan
	7.5	Aden, Yemen (PDR)
	5	Sist. de Em. Progreso, Ecuador
5065		Petrozavodsk, USSR
5070	5	R. Jesús del Gran Poder, Ecuador
5075		R. Peking, China
	25	R. Sutatenza, Colombia
5082r	0.35	R. Juliaca, Peru
5090		R. Peking, China
5095	50	R. Sutatenza, Colombia
5121r		R. Juan XXIII, Bolivia
5125		R. Peking, China
5145	120/240	R. Peking, China
5160		Vientiane, Laos
5163		R. Peking, China
5170		Fuzhou (PLA), China
5220		R. Peking, China
5240		Fuzhou (PLA), China
5250		R. Peking, China
5260		Alma Ata, USSR
	1	RRI Sibolga, Indonesia
5265		Fuzhou (PLA), China
5290	50	Krasnoyarsk, USSR
5295		R. Peking, China
5320		R. Peking, China
5420		R. Peking, China
5440		Wulumqi, China
5490	0.75	R. Univ. Gajah Mada, Indonesia
5525	20	Peking (CPA), China
5582		R. San José, Bolivia
5770		Fuzhou (PLA), China
5800		Wulumqi (RP), China
5816r	1	La Voz del Altiplano, Peru
5860		R. Peking, China
5875	5	La Voz de Honduras, Honduras
5880		R. Peking, China
5882	20	Tel Aviv, Israel
5885v	5	RRI Pekanbaru, Indonesia
5900		EU/AS, USSR
		Fuzhou (PLA), China
	100	Tel Aviv, Israel
5905		EU, USSR
5910		EU/FE, USSR
5915		Sofia (R. Moscow), Bulgaria
		EU/AS/FE, USSR
	100	Tel Aviv, Israel
5920		EU/AS/FE, USSR
5925		EU, USSR
		Tashkent, USSR
		Wulumqi, China
	250	Sackville(CBC), Canada
5925r	0.45	R. Puno, Peru
5930	120	Prague, Czechoslovakia
		EU/AS, USSR
		Murmansk, USSR
5935		EU, USSR
		Lasa (RP), Tibet
5940	50	R. Sofia, Bulgaria
		EU, USSR
		Magadan, USSR
5945	100	EU/AS/FE, USSR
		Tel Aviv, Israel
		5950-6200kHz(49 metre band)
5950		EU, USSR
		Haerbin, China
	100	Tel Aviv, Israel
	10	Azad Kashmir R, Pakistan
	1	R. Nuevo Mundo, Chile
	0.3	R. Cuenca, Ecuador
	10	Action R, Guyana
	1	R. Arequipa, Peru
5953	10	Lubumbashi, Zaire
5954	1	R. Casino, Costa Rica
5955	100	Allouis, France
		RFE/RL
	100	R. Berlin Int, GDR
	250	Kavala(VOA), Greece

kHz	kW	Stations and Countries
5955	100	R. Nederland, Holland
	100	R. Japan, Japan
	250	Tinang(VOA), Philippines
	200	Dixon(VOA/UN), USA
	50/250	Delano (VOA), USA
	10	R. Cultural, Guatemala
	0.5	R. Zelaya, Nicaragua
	7.5	R. Gazeta, Brazil
	0.5	R. Huancayo, Peru
5960	50/500	Tirana, Albania
	100	Athens, Greece
		EU/FE, USSR
		Alma Ata, USSR
	10	AIR Delhi, India
	1	Kashmir, Jammu, India
		Ulan Bator, Mongolia
	1	Taipei, Taiwan
	50	Riyadh, Saudi Arabia
	250	Sackville (CBC), Canada
	250	Deutsche Welle, Antigua
	1	La Voz de Occidente, Honduras
5965	100	Munich (VOA), Germany
	100/250	BBC W/S/D, Gt. Britain
	250	Wofferton (VOA), Gt. Britain
	50	Rhodes (VOA), Greece
	250	R. Budapest, Hungary
	100	Trans World Radio, Monaco
	250	Schwarzenburg, Switzerland
		EU, USSR
	10	Gaborone, Botswana
	50	Tangier (VOA), Morocco
	10	Benin (NBC), Nigeria
	100	Kuala Lumpur, Malaysia
	1	R. Nac. de Huanuni, Bolivia
	7.5	R. Guaiba, Brazil
5967	50	R. TV. Dominicana, Dominican Republic
5970		RFE/RL
		EU/AS/FE, USSR
		Alma Ata, USSR
		Gansu, China
	10	AIR Gauhati, India
	1	RRI Banjarmasin, Indonesia
	100	Aden, Yemen (PDR)
	10	R. El Sol, Peru
5972	1	La Voz de Centro América, Honduras
5975	100/500	BBC (R/S/D), Gt. Britain
		EU, USSR
	100	Gwelo, Rhodesia
	0.05	RRI Nabire, Indonesia
	1	R. Nacional, Bolivia
	10	R. Guaruja, Brazil
	1	R. Pres. Balmaceda, Chile
	3	R. Guaira, Paraguay
5980		EU/AS, USSR
	10/250	Freetown, Sierra Leone
	100/250	RSA/SABC, South Africa
	100	Beirut, Lebanon
	10	Quetta, Pakistan
	3.5	Kaohsiung (VOFC), Taiwan
	1	Godthaab, Greenland
	50/250	KGEI Belmont, USA
	5	R. Nacional, El Salvador
	2	R. Demerara, Guyana
	5	R. Panamericana, Peru
5985		RFE/RL
	250	Kavala (VOA), Greece
		EU, USSR
	100	Air Delhi, India
	10	R. Mexico, Mexico
	100	Family Radio, USA
	2	R. Splendid, Argentina
	10	Tr. de la Independencia, Colombia
5987	10	RRI Menado, Indonesia
5990	100	BBC Limassol, Cyprus
	100	Issoudûm, France
	100/250	BBC (S/R), Gt. Britain
	60/100	R. Rome, Italy
	120	Bucharest, Rumania
		EU/FE, USSR
	10	Ejura, Ghana
	10	AIR Bhopal, India

kHz	kW	Stations and Countries
5990	100	R. Japan, Japan
	50	Sackville (BBC), Canada
	10	R. Min. Educacão, Brazil
	1	R. Nacional Tumbes, Peru
5995	100	Jülich (DW), Germany
	100	Daventry (CBC), Gt. Britain
	8	Warsaw, Poland
	100	Vatican Radio, Vatican
	20	Blantyre, Malawi
	50	Bamako, Mali
	50	FEBA, Seychelles
	10	Mbandaka, Zaire
	35	Poro (AFRTS), Philippines
	10	Lyndhurst, Australia
	250	Greenville (VOA), USA
	4	Fort de France, Martinique
	50	Deutsche Welle, Montserrat
	1	R. Loyola, Bolivia
	1	La Voz del Pueblo, Colombia
6000	10	Aldrans, Austria
		RFE/RL
	250	R. Budapest, Hungary
	250	Sines (DW), Portugal
		EU, USSR
		Fuzhou (PLA), China
		Hangzhou, China
	50	Riyadh, Saudi Arabia
	10	R. Singapore, Singapore
	50/250	Sackville (CBC), Canada
	1	R. Swan, Honduras
	25	R. Inconfidencia, Brazil
	2	R. Supér, Colombia
	1.2	R. Sur, Uruguay
	5	R. Sensación, Venezuela
6005	20	Berlin (RIAS), Germany
	100	Munich (RIAS), Germany
		EU, USSR
	250	BBC, Ascension Island
	4	R. Buea, Cameroon
	3.5	Zanzibar, Tanzania
	0.3/0.6	4 sts (NHK), Japan
	10	Colombo, Sri Lanka
	250	Carnarvon, Australia
	10	Lyndhurst, Australia
	0.5	CFCX, Montreal, Canada
	10	R. Progreso, Bolivia
6006	1	R. Reloj, Costa Rica
6010	100	Wavre, Belgium
	100	BBC Limassol, Cyprus
		RFE/RL
	100	Issoudum, France
	500	Wertachtal (DW), Germany
	100	R. Berlin Int., GDR
	100	BBC(S), Gt. Britain
	100	Rome, Italy
	250	Sines (DW), Portugal
		EU/AS, USSR
	10	AIR Calcutta, India
	35	Okinawa (VOA), Japan
	250	BBC Tebrau, Malaysia
	100	Islamabad, Pakistan
	250	Dixon (VOA), USA
	1	R. Miramundo, Guatemala
	0.25	R. Mil, Mexico
	0.1	R. Eco, Nicaragua
	5	R. Cooperativa, Chile
	10	R. America, Peru
	10	R. Sarandí, Uruguay
	1	R. Los Andes, Venezuela
6012	1	McMurdo Sound, Antarctica
6015	100	Vienna, Austria
	120	Prague, Czechoslovakia
	50	Rhodes (VOA), Greece
	250	Fredrikstad, Norway
	250	Sines (CBC), Portugal
		EU, USSR
	100	Voice of the Gospel, Ethiopia
	100	Abidjan, Ivory Coast
	50	Tangier (VOA), Morocco
	10	Dacca, Bangladesh
	100	AIR Delhi, India

kHz	kW	Stations and Countries
6015	250	Greenville (VOA), USA
	1	El Sol de Sept, Bolivia
	10	R. Cl. de Pernambuco. Brazil
	1	R. Mira, Colombia
	8	R. Paraguay, Paraguay
6020	100	R. Nederland, Holland
		EU/FE, USSR
		Kiev, USSR
	300	R. Nederland, Malagasy
	100	Gwelo, Rhodesia
	100	AIR Delhi, India
	2.5	AIR Simla, India
	50	Poro (VOA), Philippines
	250/500	Greenville (VOA), USA
	0.25	Veracruz, Mexico
	300	R. Nederland, Bonaire
	1	R. Diego Portales, Chile
	5	R. Victoria, Peru
	1	R. Anzoatégui, Venezuela
6025	100	R. Nederland, Holland
	100	Rome, Italy
	250	Cyclops (DW), Malta
	100	R. Dif. Portuguesa, Portugal
	50	AS, USSR
	0.5	R. Clube, Cape Verde Islands
	10	Beira, Mozambique
	10	Enugu (NBC), Nigeria
	50	Kuala Lumpur, Malaysia
	250	Greenville (VOA), USA
	10	R. Nacional, Paraguay
6028	1	R. Nac. Iquitos, Peru
6030	20	Mühlacker (SDR), Germany
	100	Munich (VOA), Germany
	250	BBC(D/R), Gt. Britain
	50	Rhodes (VOA), Greece
		EU/AS, USSR
	4	Franceville, Gabon
	250	Soroti, Uganda
	100	Baghdad, Iraq
	50	R. Japan, Japan
	15	FEBC, Philippines
	0.1	CFVP, Calgary, Canada
	175	Bethany (AFRTS), USA
	1	La Voix du Nord, Haiti
	25	R. Nacional, Colombia
6035	100	Trans World Radio, Monaco
	60	Warsaw, Poland
	350	Hörby, Sweden
		Moscow (Warsaw 3), USSR
		FE, USSR
	250	Monrovia (VOA), Liberia
	100	AIR Delhi, India
	100	AIR Bombay, India
	250	Carnarvon, Australia
	10	R. Panamericana, Bolivia
	10	R. Globo, Brazil
	0.2	R. Landa, Peru
	1	La Radio, Uruguay
6040	100	Allouis, France
	500	R. Berlin Int., GDR
	250	Wofferton (VOA), Gt. Britain
		EU, USSR
	7.5	Tamsui (BCC), Taiwan
	10	Dubai, Un. Arab Emirates
	175/250	Bethany (VOA), USA
	250	Deutsche Welle, Antigua
	50	BBC, Montserrat
	10	La Voz del Tolima, Colombia
6045	100	Allouis, France
	5	Athens (YENED), Greece
	100	R. Nederland, Holland
	350	Hörby, Sweden
	150	Schwarzenburg, Switzerland
		EU/AS, USSR
	10/120	Algiers, Algeria
	50/250	Monrovia (VOA), Liberia
		Dongsheng, China
	120	RRI Jakarta, Indonesia
	10	Lyndhurst, Australia
	50/250	Sackville (CBC), Canada
	50	TWR Bonaire, Neth. Antilles

kHz	kW	Stations and Countries
6045	25	R. Clube Paranaense, Brazil
	5	R. Libertad, Chile
	10	R. Santa Rosa, Peru
	1	R. Dif. del Uruguay
6050	250	BBC(D/S), Gt. Britain
	100	Rome, Italy
		FE, USSR
	10	Maputo, Mozambique
	10	WNRS Ibadan, Nigeria
	20	AIR Delhi, India
	250	BBC Tebrau, Malaysia
	10	Sibu, Sarawak
	5	R. América, Honduras
	50/100	R. St. HCJB, Ecuador
6055	120/400	Prague, Czechoslovakia
		EU/AS, USSR
	50	Kigali, Rwanda
	50	NSB Tokyo, Japan
	250	R. Kuwait, Kuwait
	50	Greenville (VOA/UN), USA
	7.5	R. Panamericana, Brazil
	7.5	R. Rural, Brazil
	5	R. Pacífico, Colombia
	2	R. Continental, Peru
	5	La Voz de Melo, Uruguay
6060	100	Munich (VOA), Germany
	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	50	Rome, Italy
	25	Caltanisetta, Italy
		EU/AS/FE, USSR
	100	Tangier (VOA), Morocco
	4	Niamey, Niger
	20	Lusaka, Zambia
	10	Miri, Sarawak
	10/50	R. Habana, Cuba
	50	Buenos Aires, Argentina
	2	La Voz de la Democracia, Ecuador
6065	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	BBC (D), Gt. Britain
	100	Arganda (RNE), Spain
	350	Hörby/Karlsborg, Sweden
		EU, USSR
	100	Voice of the Gospel, Ethiopia
	2	AIR Kohima, India
	100/250	BBC, Tebrau, Malaysia
	50/250	Sackville (CBC), Canada
	1	R. Nacional Brasilia, Brazil
	5	R. Super, Colombia
6069	1	R. El Cóndor, Bolivia
6070	50/100	R. Sofia (R. Moscow), Bulgaria
	100	BBC Limassol, Cyprus
		RFE/RL
	100	R. Berlin Int., GDR
	50	Rhodes (VOA), Greece
		FE,USSR
	25	TWR, Swaziland
		Jilin, China
	20	RRI Jajapura, Indonesia
	0.05	RRI Merauke, Indonesia
	10	R. Thailand, Thailand
	1	CFRX, Toronto, Canada
	100	R. St. HCJB, Ecuador
	0.5	R. El Mercurio, Ecuador
	2	La Voz de Huamanga, Peru
	10	R. San Sebastián, Venezuela
6075	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	60/100	Rome, Italy
		AS, USSR
	50	R. ELWA, Liberia
	35	Okinawa (VOA), Japan
	250	Tinang (VOA), Philippines
	10	Colombo, Sri Lanka
	3	La Voz del Junco, Honduras
	5	R. Minería, Chile
	100	R. St. HCJB, Ecuador
	10	R. Sutatenza, Colombia
	2	R. Continente, Uruguay
6080	50/100	R. Berlin Int., GDR

kHz	kW	Stations and Countries
6080	250	Wofferton (VOA), Gt. Britain
		EU/AS/FE, USSR
	100	Tangier (VOA), Morocco
		Hailaer, China
	250	BBC Tebrau, Malaysia
	50/350	Riyadh, Saudi Arabia
	0.01	CKFX, Vancouver, Canada
	50/250	Greenville (VOA), USA
	1	R. Zaraza, Venezuela
6082		R.21 de Diciembre, Bolivia
	15	R. Nacional, Lima, Peru
6085	50	R. Sofia, Bulgaria
	100	BBC Limassol, Cyprus
	10	Munich (BR), Germany
	100	Jülich (DW), Germany
	100/250	BBC, Gt. Britain
	100	R. Nederland, Holland
		EU, USSR
		Tallinn, USSR
	10	Kisangani, Zaire
	10/100	AIR, Madras, India
	100	AIR, Delhi, India
	250	Sackville (DW), Canada
	250	Deutsche Welle, Antigua
	15	R. Jornal do Comercio, Brazil
	1	Ondas del Darién, Colombia
6087		BCC, Taiwan
6090	250	Kavala (VOA), Greece
	250/500	R. Luxemburg, Luxemburg
		EU/FE, USSR
		Irkutsk, USSR
	10	ELBC, Liberia
	25	Beira, Mozambique
	250	R. TV. Kaduna, Nigeria
	10	Dacca, Bangladesh
	2	Sydney, Australia
	1	Onda 145, Mexico
	30	R. Belgrano, Argentina
	5	R. Dif. la Pascua, Venezuela
6095	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	100	Warsaw, Poland
	100	Tangier (VOA), Morocco
	100	Baghdad, Iraq
		Phnom-Penh, Khmer Republic
	250	Tinang (VOA), Philippines
	100	Delano (VOA), USA
	100	Dixon (AFRTS), USA
	1.5	R. Dif. São Paulo, Brazil
	5	La Voz del Centro, Colombia
	100	R. St. HCJB, Ecuador
	10	R. Nacional 1080, Peru
6097	50	Mogadishu, Somalia
6100	500	Wertachtal (DW), Germany
	250	Cyclops (DW), Malta
	350	Noblejas (RNE), Spain
	350	Hörby, Sweden
		EU/FE, USSR
	100	R. Belgrade, Yugoslavia
	50	RTM, Tanger, Morocco
	10	Maiduguri (NBC), Nigeria
	100	Kuala Lumpur, Malaysia
	250	Deutsche Welle, Antigua
	0.4	R. Hernández, Nicaragua
	1	R. Calama, Chile
6105	15/250	Pori, Finland
		RFE/RL
	80	Vatican Radio, Vatican
	50	Dar es Salaam, Tanzania
	100	AIR Delhi, India
	7.5	Air Force, Taiwan
	7.5	Wellington, New Zealand
	1	R. Universidad, Costa Rica
		R.Caraibes, Haiti
	1	Merida, Mexico
	5	Ceará R. Clube, Brazil
	1	R. Nacional, Tacna, Peru
6110	100	Munich (VOA), Germany
	100/250	BBC (S/R), Gt. Britain
	250	R. Budapest, Hungary
	7.5	EU, USSR

kHz	kW	Stations and Countries
6110	7.5	R. Kashmir, Srinagar, India
	250	Tinang (VOA), Philippines
	50	TWR Bonaire, Neth. Ant.
	1	R. Charitas, Paraguay
	1	R. Cabimas, Venezuela
6115	500	Stimme der DDR(RBI), GDR
		RFE/RL
		EU/FE, USSR
	50	R. TV. Congolaise, Congo
	25	Maputo, Mozambique
	10	NSB Tokyo, Japan
	50	Karachi, Pakistan
	1	R. Univ de Sonora, Mexico
	1	La Voz del Llano, Colombia
	10	R. Unión, Peru
6120	7.5	BBC Limassol, Cyprus
	15/250	Pori, Finland
	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	350	Noblejas (RNE), Spain
	350	Hörby, Sweden
		EU/AS, USSR
	20	AIR Delhi, India
	10	AIR Hyderabad, India
	0.25	RRI Surabaya, Indonesia
	100	Islamabad, Pakistan
	50	FEBC, Philippines
	2	4VEH, Haiti
	1	R. Atlántico, Nicaragua
	10	R. El Mundo, Argentina
	10	R. Super, Colombia
	1	R. Angostura, Venezuela
6123	1	R. La Cronica, Peru
6125	100/500	BBC (D/S), Gt. Britain
		AS, USSR
	10	Kananga, Zaire
	250	Greenville (VOA), USA
	250	Delano (VOA), USA
	50/250	Dixon (VOA), USA
	5	R. Suyapa, Honduras
	10	R. Nac. de São Paulo, Brazil
	1	R. Continental, Colombia
	10	SODRE, Uruguay
6129	1	R. Valles del Tuy, Venezuela
6130	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	BBC (S), Gt. Britain
	100	Fredrikstad, Norway
	350	Karlsborg, Sweden
		EU/AS, USSR
	100	Tema, Ghana
	10	AIR Gauhati, India
	0.6	Kumamoto (NHK), Japan
	25	Vientiane, Laos
	100	Islamabad, Pakistan
	350	Riyadh, Saudi Arabia
	10	Colombo, Sri Lanka
	0.5	CHNX Halifax, Canada
	250	Greenville (VOA), USA
	175	Bethany (VOA/UN), USA
	100	R. St. HCJB, Ecuador
6135	50/500	Tirana, Albania
	500	R. Sofia, Bulgaria
		RFE/RL
	100	Warsaw, Poland
	150	Schwarzenburg, Switzerland
		EU/AS/FE, USSR
		Baku, USSR
	30	Tananarive, Malagasy
	4	RRI Samarinda, Indonesia
	10	Suwon, Korea (Rep)
	4	Papeete, Tahiti
	7.5	R. Gaucha, Brazil
	10	R. Universidad, Chile
	0.5	R. Pasco, Peru
6140	100	BBC Limassol, Cyprus
	100	Munich (VOA), Germany
	50/100	R. Berlin Int, GDR
	250/500	BBC (S/D), Gt. Britain
	250	Kavala (VOA), Greece
	100	Athens,Greece

kHz	kW	Stations and Countries
6140	100	Arganda (RNE), Spain
	100	EU, USSR
	10/25	Bujumbura, Burundi
	10	AIR Ranchi, India
	10	Perth, Australia
	1	R. Santa Cruz, Bolivia
	5	R. Visión, Ecuador
	10	R. Monte Carlo, Uruguay
6145	500	Issoudum, France
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
		EU/AS/FE, USSR
	50	Algiers, Algeria
	10	Calabar (NBC), Nigeria
	100	AIR Delhi, India
	250	Dixon (VOA)/UN), USA
	50/250	Delano (VOA), USA
	250	Deutsche Welle, Antigua
	50	Deutsche Welle, Montserrat
	1	La Voz del Cauca, Colombia
	1	R. Mineria, Peru
6150	50/500	Tirana, Albania
	100	Munich (VOA), Germany
	100/500	BBC (D/S), Gt. Britain
	250	Kavala (VOA), Greece
	250	R. Budapest, Hungary
	18/120	Bucharest, Rumania
	10	R. Belgrade, Yugoslavia
		AS, USSR
	20	Omdurman, Sudan
	7	R. Maldives, Maldives
	0.5	RRI Manokwari, Indonesia
	10	Colombo, Sri Lanka
	10	Melbourne, Australia
	1	R. Centroamericana, Costa Rica
	5	Coop. Vitalicia, Chile
	1	La Voz del Huila, Colombia
	2	R. Guaicaipuro, Venezuela
6155	100	Vienna, Austria
	100	Warsaw, Poland
	18	Bucharest, Rumania
		AS/FE, USSR
	18	Conakry, Guinea
	10/100	Swaziland Comm. R., Swaziland
	10	Lama-Kara, Togo
		Gansu, China
	100	Baghdad, Iraq
	10	Tokyo (FEN), Japan
	50	R. Singapore, Singapore
	175	Bethany (UN), USA
	100	Family Radio, USA
	0.25	R. Citadelle, Haiti
	1	R. Fides, Bolivia
		R. Indoamérica, Bolivia
	10	R. Cultura da Bahia, Brazil
	1	R. Pucallpa, Peru
	10	R. Carve, Uruguay
6160	120	Sofia, Bulgaria
	250	Wofferton (BBC/VOA), Gt. Britain
	50	Rhodes (VOA), Greece
		EU, USSR
	50	Algiers, Algeria
	250	Kigali (DW), Rwanda
	20	AIR Delhi, India
	100	Poro (VOA), Philippines
	0.4	CKZU, Vancouver, Canada
	0.3	CKZN, St. Johns, Canada
	100	Family Radio, USA
	5	R. Municipal, Argentina
	10	Emis. Nueva Granada, Colombia
	1	R. Canaima, Venezuela
6165	250	Beromünster, Switzerland
		EU/FE, USSR
	100	Vatican Radio, Vatican
	20	Lusaka, Zambia
		Ho Chih Minh City, Vietnam
		RMBC, Haiti
	1	R. Caribe, Honduras
	10	Voz de América Latina, Mexico
	300	R. Nederland, Bonaire

kHz	kW	Stations and Countries
6165	10	R. Cultura São Paulo, Brazil
6170	100	BBC(S), Gt. Britain
	250	Kavala (VOA), Greece
	250	R. Malta, Malta
	250	Sines, Portugal
		EU, USSR
	100	Cairo, Egypt
	4	Tananarive, Malagasy
	10	AIR Lucknow, India
	20/300	Tel Aviv, Israel
	10	Philipp. Br. Sce, Philippines
	1	R. Dif. Tupiza, Bolivia
	1	La Voz de la Selva, Colombia
	4	Cayenne, French Guyana
	1	R. Fenix, Uruguay
	20	R. Nacional, Venezuela
6174	50	Muscat, Oman
6175	100	Issoudum, France
	100	Athens, Greece
		EU/AS, USSR
	10	Kaduna (NBC), Nigeria
	0.9	Tokyo (NHK), Japan
	0.6	Hiroshima (NHK), Japan
	100	Kuala Lumpur, Malaysia
	250	Sackville (BBC), Canada
	0.5	Faro del Caribe, Costa Rica
	250	BBC, Antigua
	10	R. Guarani, Brazil
	5	R. Tawantinsuyo, Peru
6176		Shaanxi, China
6180	100	BBC Limassol, Cyprus
	100/250	Fredrikstad, Norway
	250	Wofferton (VOA), Gt. Britain
	18	Bucharest, Rumania
		EU, USSR
		Alma Ata, USSR
	50	Monrovia (VOA), Liberia
	20/300	Tel Aviv, Israel
	10	La Voz de Guatemala
	10	R. Nacional Mendoza, Argentina
	1	R. Universidad, Chile
	25	R. Nacional, Colombia
	1	La Voz de los Aucas, Ecuador
	1	R. Turismo, Venezuela
6185	120/240	R. Tirana, Albania
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Kavala (VOA), Greece
		EU, USSR
	100	R. Ethiopia, Ethiopia
	100	Tripoli, Libya
	35/50	Pora (VOA), Philippines
	10	Colombo, Srj Lanka
	200	Delano (VOA), USA
	1	R. Swan, Honduras
	1	La Voz del Maestro, México
	1	R. Amauta, Bolivia
	10	R. Bandeirantes, Brazil
	100	R. St., HCJB, Ecuador
6190	50	R. Bremen/SFB, Germany
	18	Bucharest, Rumania
		AS/FE, USSR
	100	Vatican Radio, Vatican
	50	Sebaa-Aioun, Morocco
	7.5	Dacca, Bangladesh
	10	AIR Delhi, India
	10	RRI Padang, Indonesia
	10	Peshawar, Pakistan
	0.3	Osaka (NHK), Japan
	0.3	Sendai (NHK), Japan
	500	Greenville (VOA), USA
	50	Trans World Radio, Bonaire
	1/10	R. Nacional, Chile
	5	La Voz de los Centauros, Col.
	1	Ecos del Torbes, Venezuela
6195	100	BBC Limassol, Cyprus
	100	R. Berlin Int., GDR
	100/250	BBC (D/S), Gt. Britain
	250	Daventry (CBC), Gt. Britain
		EU, USSR
	10	Sokoto (NBC), Nigeria

kHz	kW	Stations and Countries
6195	100	BBC Tebrau, Malaysia
	250	BBC, Antigua
	1	R. Universo, Bolivia
	7.5	R. Continental, Brazil
	1	Voz de Cali, Colombia
	1	R. Cuzco, Peru
6200	50/500	R. Tirana, Albania
		EU, USSR
		Vientiane, Laos

6200–7100kHz

6210		Vientiane, Laos
	0.5	R. Luis de Fuentes, Bolivia
6218r	0.5	La Voz de la Libertad, Dominican Republic
6221		Schulungssender, Austria
6225		R. Peking, China
6230	25	R. Andorra, Andorra
		EU, USSR
	100	Cairo, Egypt
6250	10	Malabo, Equatorial Guinea
	120/240	Pyongyang, Korea (DR)
6260		Qinghai, China
6270		R. Peking, China
6280		Wulumqi (RP), China
6290		R. Peking, China
	120/240	Pyongyang, Korea (DR)
6293r	1	R. Em. Tupiza, Bolivia
6320		R. Peking, China
6325		Istanbul Police Radio, Turkey
6335		Tay Bac, Vietnam
6338	120/240	Pyongyang, Korea (DR)
6340	1	Turkiye Polis Radio, Turkey
6345		R. Peking, China
6383	50	Ulan Bator, Mongolia
6390r	0.2	R. Kükesi, Albania
6400	120/240	Pyongyang, Korea (DR)
6410		R. Peking, China
6425		Hanoi, Vietnam
6440	0.45	Ankara Tec. School, Turkey
6450		Hanoi, Vietnam
6510	10	Bangkok Met., Thailand
6520		R. Peking, China
6540		R. Peking, China
	120/240	Pyongyang, Korea (DR)
6550		R. Peking, China
6560		R. Peking, China
6575	120/240	Pyongyang, Korea (DR)
6580	0.5	Voice of Lebanon, Lebanon
6590		R. Peking, China
6600	120/240	Pyongyang, Korea (DR)
6608	0.15	Eregli, Turkey
6620		Zhejiang, China
6645		R. Peking, China
6665		R. Peking, China
6720		Viet Bac, Vietnam
6750		R. Peking, China
6765		Fuzhou (PLA), China
6770	120/240	Pyongyang, Korea (DR)
6810		R. Peking, China
6825		R. Peking, China
6840		Inner Mongolia, China
6850	0.3	Pathfinders St, Poland
6860		R. Peking, China
6890		R. Peking, China
6900	2.5	Ankara, Turkey
6908		Viet Bac, Hanoi
6935		R. Peking, China
6936		Kunming, China
6955		R. Peking, China
6975		R. Peking, China
6987		Luang Prabang, Laos
6995		R. Peking, China
7010		R. Peking, China
7025		Fuzhou (PLA), China
7035		R. Peking, China
7040	0.3	R. NYAB, Bhutan
7050	100	Cairo, Egypt
		Wulumqi, China
7060	10	R. Peking, China
	10	Rawalpindi, Pakistan
7065	50/240	R. Tirana, Albania

kHz	kW	Stations and Countries
7065	100	Tehran, Iran
7070		RRI Jakarta, Indonesia
7075	50/240	R. Tirana, Albania
	100	Cairo, Egypt
7080	50/240	R. Tirana, Albania
		Hanoi, Vietnam
7085	10/50	Karachi, Pakistan
7090	50/500	R. Tirana, Albania
7095		R. Peking, China
	10/50	Karachi, Pakistan
		7100-7300kHz (41 metre band)
7100		Sofia (R. Moscow), Bulgaria
		EU/AS/FE, USSR
		Yakutsk, USSR
	7.5	RRI Yogyakarta, Indonesia
	0.25	Izmir, Turkey
7105		Sofia (R. Moscow), Bulgaria
	100	Jülich (DW), Germany
	250	BBC (D), Gt. Britain
	100	Trans World Radio, Monaco
	350	Noblejas (RNE), Spain
	250	BBC, Ascension Island
	30	Tananarive, Malagasy Republic
	100	AIR Delhi, India
	100	Jawalakhel, Nepal
	50	Damascus, Syria
7110	100	BBC (D/S), Gt. Britain
	50	Rhodes (VOA), Greece
	60	Warsaw, Poland
		R. Warsaw (via EU, USSR)
		AS/FE, USSR
	50	Bamako, Mali
	7.5	Kampala, Uganda
	50	RRI Yogyakarta, Indonesia
	10	Kuala Lumpur, Malaysia
	350	Riyadh, Saudi Arabia
	35	Colombo (VOA), Sri Lanka
7114	1	RRI Denpassar, Indonesia
7115	50	R. Sofia (R. Moscow), Bulgaria
		RFE/RL
		AS, USSR
	10	Bandundu, Zaire
	10	R. Thailand, Thailand
7120	50/500	Tirana (RP), Albania
	100/250	BBC (S/D/R), Gt. Britain
	250	Kavala (VOA), Greece
	18/120	Bucharest, Rumania
		EU/AS, USSR
	100	Ndjamana, Chad
	120	Omdurman, Sudan
	10	RRI Jayapura, Indonesia
	250	R. Kuwait, Kuwait
	100	BBC Tebrau, Malaysia
7125	100	Warsaw, Poland
		EU/AS/FE, USSR
	100	Voice of the Gospel, Ethiopia
	18	Conakry, Guinea
	5	Nairobi, Kenya
	250	AIR Aligarh, India
	50/100	AIR Delhi, India
	300	Tel Aviv, Israel
7130	20/100	BBC Limassol, Cyprus
	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	100/250	BBC(S), Gt. Britain
	250	Sines (DW), Portugal
		EU, USSR
	100	Blantyre, Malawi
	10	Kuching, Sarawak
	50	Taipei (VOFC), Taiwan
7135	100	Issoudum, France
	100	Trans World Radio, Monaco
		EU/AS, USSR
	20	Franceville, Gabon
	250	Monrovia (VOA), Liberia
	350	Tehran, Iran
	10	Karachi, Pakistan
	250	Tinang (VOA), Philippines
7140	20/100	BBC Limassol, Cyprus
	100/250	BBC (S/R), Gt. Britain
		EU/AS, USSR

kHz	kW	Stations and Countries
7140	100	Nairobi, Kenya
	5	Nampula, Mozambique
	10	AIR Hyderabad, India
	10	RRI Ambon, Indonesia
	20/100	R. Japan, Japan
		Turhal, Turkey
7148	1.6	Istanbul, Turkey
7145	100	Jülich (DW), Germany
		RFE/RL
	100	Warsaw, Poland
	350	Karlsborg, Sweden
		EU/AS/FE, USSR
		Voice of the Gospel, Ethiopia
		Ilorin (NBC), Nigeria
	100	AIR Delhi, India
	25	Vientiane, Laos
	10	Kuching, Sarawak
7150	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	250	BBC(R/W), Gt. Britain
	250	Kavala (VOA), Greece
	250	R. Budapest, Hungary
		EU/AS, USSR
	10	Nairobi, Kenya
	0.25	Quelimane, Mozambique
	100	AIR Delhi, India
	10	Korea (Republic)
	100	Minshsiung (BCC), Taiwan
		Zile, Turkey
7155		RFE/RL
	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	20/250	R. Budapest, Hungary
		EU/AS, USSR
	100	Vatican Radio, Vatican
	10	R. Barlavento, Cape Verde Islands
	4	Tananarive, Malagasy Republic
	4/30	Niamey, Niger
	7.5/100	Amman, Jordan
	250	Tinang (VOA), Philippines
7160	100	Vienna, Austria
	100	Jülich (DW), Germany
	250	Kavala (VOA), Greece
	250	Cyclops (DW), Malta
		EU/AS/FE, USSR
	10	Hargeisa, Somalia
	10	AIR Madras, India
	35	Okinawa (VOA), Japan
	250	Tinang (VOA), Philippines
	10	Kuching, Sarawak
7165	100	Allouis, France
		RFE/RL
	250	Wofferton (VOA), Gt. Britain
		EU, USSR
	100	Voice of the Gospel, Ethiopia
	20	Dar es Salaam, Tanzania
		Fuzhou, China
	100	AIR Delhi, India
	10	RRI Jayapura, Indonesia
	35	Okinawa (VOA), Japan
	100	Islamabad, Pakistan
	50	Karachi, Pakistan
7170	100	Vienna, Austria
	100/250	BBC, Gt. Britain
	250	Kavala (VOA), Greece
		EU/AS/FE, USSR
	25	Dakar, Senegal
	100	Tangier (VOA), Morocco
	100	SABC, South Africa
	10	R. Singapore, Singapore
	20	R. Noumea, New Caledonia
7175	500	Wertachtal (DW), Germany
	5	Caltanisetta, Italy
	120	Bucharest, Rumania
		EU/AS/FE, USSR
	25	R. TV. Congolaise, Congo
	250	Monrovia (VOA), Liberia
	0.25	Pemba, Mozambique
7180		RFE/RL
	250	Wofferton (VOA), Gt. Britain
	100	Warsaw, Poland

kHz	kW	Stations and Countries
7175		R. Warsaw (via EU, USSR)
	100	Voice of the Gospel, Ethiopia
	100	Tangier (VOA), Morocco
	10	AIR Bhopal, India
	250	BBC Tebrau, Malaysia
	0.5	Taipei, Taiwan
7185	5	Stimme der DDR(RBI), GDR
	100/250	BBC(D/S), Gt. Britain
		EU/AS/FE,USSR
	100	SABC, South Africa
	50	Rangoon, Burma
		Gansu, China
7190		RFE/RL
		EU, USSR
	4	Cotonou, Benin
	100	Tangier (VOA), Morocco
		R. Peking, China
	50	Tinang (VOA), Philippines
	35	Poro (VOA), Philippines
	10	Colombo, Sri Lanka
	100	Aden, Yemen (PDR)
7195	18/120	Bucharest, Rumania
		EU, USSR
	50	Algiers, Algeria
	250	Monrovia (VOA), Liberia
	7.5	Kampala, Uganda
	100	AIR, Delhi, India
	20	R. Japan, Japan
	100	Islamabad, Pakistan
7196	100/250	Baghdad, Iraq
7200		RFE/RL
	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	100	R. Budapest, Hungary
		EU, USSR
		Yakutsk, USSR
	50	R. Belgrade, Yugoslavia
	120	Omdurman, Sudan
	50	Kabul, Afghanistan
		Xilinhos, China
	10	Penang, Malaysia
	250	Tinang (VOA), Philippines
		Tokat, Turkey
7205	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	1	Polish Pathfinders St., Poland
		EU/AS, USSR
	30	R. Yaoundé, Cameroon
	20	R. Japan, Japan
	250	Tinang (VOA), Philippines
7210	100	BBC Limassol, Cyprus
	500	Wertachtal (DW), Germany
	100/250	BBC (S), Gt. Britain
	100	R. Nederland, Holland
	100	Beromünster (Red Cross), Switzerland
		EU/FE, USSR
		Khabarovsk, USSR
	100	Voice of the Gospel, Ethiopia
	100	Tangier (VOA), Morocco
	100	Dakar, Senegal
	10	AIR Calcutta, India
	0.5	RRI Biak, Indonesia
	250	Tinang (VOA), Philippines
		RFE/RL
7215	100	Athens, Greece
	250	R. Budapest, Hungary
	100	Trans World Radio, Monaco
		EU, USSR
	10	R. Ecclesia, Angola
	10	Abidjan, Ivory Coast
	10	Tutong, Brunei
	100	AIR Delhi, India
	1	McMurdo Sound, Antarctica
7220		RFE/RL
		AS, USSR
	100	Bangui, Central African Republic
	100	Tangier (VOA), Morocco
	10/50	Lusaka, Zambia
	1	RRI Jakarta, Indonesia
	50	Riyadh, Saudi Arabia
	10	Shepparton, Australia

kHz	kW	Stations and Countries
7225	18/120	Bucharest, Rumania
	100	Cairo, Egypt
	10	Sebaa-Aioun, Morocco
	250	Kigali (DW), Rwanda
	350	Gafsa, Tunisia
	250	AIR Aligarh, India
	250	Baghdad, Iraq
	20/300	Tel Aviv, Israel
	12	R. Maldives, Maldives
	50	FEBC, Philippines
7230	100	BBC Limassol, Cyprus
	100/250	BBC(D/S), Gt. Britain
	250	Kavala (VOA), Greece
	100	Trans World Radio, Monaco
		EU/AS/FE, USSR
	100	Tangier (VOA), Morocco
	20	Ouagadougou, Upper Volta
7235	500	Wertachtal(DW), Germany
	100	Jülich(DW), Germany
	100	BBC (D), Gt. Britain
	100	Daventry (CBC), Gt. Britain
	100	Rome, Italy
		EU, USSR
	100	Vatican Radio, Vatican
	50	Lusaka, Zambia
	50	Ulan Bator, Mongolia
	50	San'a, Yemen
7240	100/250	BBC, Gt. Britain
	100	R. Nederland, Holland
		EU, USSR
	10	R. Belgrade, Yugoslavia
	4	R. Garoua, Cameroon
	100	Voice of the Gospel, Ethopia
	10	Mombasa, Kenya
	25	Maputo, Mozambique
	10	AIR Bombay, India
	7.5	RRI Medan, Indonesia
	0.15	RRI Mataram, Indonesia
	50	Poro (VOA), Philippines
	100	Carnarvon, Australia
7245	120	Prague, Czechoslovakia
		RFE/RL
	100	BBC (D), Gt. Britain
	100	Trans World Radio, Monaco
	250	Sines (CBC), Portugal
		EU/FE, USSR
	50	Algiers, Algeria
	100	R. Nacional, Luanda, Angola
	100	R. Mauritania, Mauritania
		Ho Chih Minh City, Vietnam
7250	100	BBC Limassol, Cyprus
		RFE/RL
		EU/AS, USSR
	100	Vatican Radio, Vatican
	120	Lusaka, Zambia
	7.5	Dacca, Bangladesh
	100	Tamsui (BCC), Taiwan
	10	AIR Lucknow, India
	100	R. Japan, Japan
	7.5	R. Singapore, Singapore
7253	0.25	Nampula, Mozambique
7255	50/120	R. Sofia, Bulgaria
	500	Issoudum, France
		RFE/RL
	10	Lagos (NBC), Nigeria
	25	Trans World Radio, Swaziland
	10	Kinshasa, Zaire
	100	Okinawa (VOA), Japan
7260	100	BBC Limassol, Cyprus
	500	R. Berlin Int., GDR
	100/250	BBC (DS), Gt. Britain
	100	Trans World Radio, Monaco
		EU/FE, USSR
	4	Moroni, Comoro Islands
	35/100	Tangier (VOA), Morocco
	100	AIR Madras, India
	10/100	AIR Delhi, India
	50	Ulan Bator, Mongolia
	3.5	Air Force Station, Taiwan
		Viet Bac, Vietnam
	2	Vila, New Hebrides

kHz	kW	Stations and Countries
7265	20	Rohrdort (SWF), Germany
	250	Cyclops (DW), Malta
		EU, USSR
		Yakutsk, USSR
	100	Tangier (VOA), Morocco
	100	Lomé, Togo
	100	Kisangani, Zaire
	100	Okinawa (VOA), Japan
		50 Karachi, Pakistan
	10	Azad Kashmir Radio, Pakistan
7266	0.075	RRI Surabaya, Indonesia
7270	50	R. Sofia, Bulgaria
	250	Kavala (VOA), Greece
		EU/AS/FE, USSR
	250	BBC, Ascension Island
	100	Libréville, Gabon
	250	RSA, South Africa
	10	Kuching, Sarawak
7275	50/240	R. Tirana, Albania
	50	R. Sofia, Bulgaria
	100	BBC Limassol, Cyprus
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	60	Rome (RAI/UN), Italy
	250	Cyclops (DW), Malta
	100	Trans World Radio, Monaco
		AS, USSR
	100	Lagos, Nigeria
	50	Sfax, Tunisia
		Guiyang, China
	35	Poro (VOA), Philippines
7280	50/240	R. Tirana, Albania
	250	BBC (S), Gt. Britain
	35	Thessaloniki (EPT), Greece
	250	Kavala (VOA), Greece
		EU/FE, USSR
	250	Monrovia (VOA), Liberia
	10	Dar es Salaam, Tanzania
		Fuzhou (PLA), China
	250	AIR Aligarh, India
	20	AIR Delhi, India
	1.75	Istanbul, Turkey
7285	100	Issoudum, France
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Kavala (VOA), Greece
	100	Warsaw, Poland
	250	Sines (DW/CBC), Portugal
		EU/AS/FE, USSR
	300	R. Nederland, Malagasy Republic
	18	Bamako, Mali
	1/10	Ibadan (NBC), Nigeria
	250	Kigali (DW), Rwanda
	100	SABC, South Africa
	100	AIR Delhi, India
	0.3	RRI Menado, Indonesia
7290	240	R. Tirana, Albania
	100	Munich (VOA), Germany
	60	Rome (RAI/UN), Italy
		EU/FE, USSR
	100	AIR Dehli, India
	100/250	Islamabad, Pakistan
7295		RFE/RL
	250	Kavala (VOA), Greece
		EU/AS/FE, USSR
	10	Gaborone, Botswana
	10	Accra, Ghana
	5	Kisumu, Kenya
	35	Tangier (VOA/UN), Morocco
	10	R. Mbuji-Mayi, Zaire
	10	Penang, Malaysia

7300–9500 kHz

7300	50/500	R. Tirana, Albania
	50	R. Berlin Int, GDR
		EU/AS/FE, USSR
7305		EU/AS, USSR
7310	50/500	R. Tirana (RP), Albania
		EU/FE, USSR
		Vientiane, Laos
7315		EU/AS, USSR
7315		R. Peking, China
7320	100/250	BBC, Gt. Britain
		EU/AS, USSR
		Magadan, USSR
	20/300	Tel Aviv, Israel
7325	250	Wofferton (BBC/VOA), Gt. Britain
		EU/AS, USSR
7330		EU, USSR
7335		EU, USSR
7340		EU/FE, USSR
7345	120	Prague, Czechoslovakia
		Yakutsk, USSR
		EU, USSR
	100	Islamabad, Pakistan
7350		EU, USSR
		R. Peking, China
7355		EU/AS, USSR
7360		EU, USSR
7370		EU/AS/FE, USSR
7375		Hanoi, Vietnam
7380		EU/AS, USSR
7385		Wulumqi (RP), China
		Vientiane, Laos
7390		EU, USSR
7395	20/300	Tel Aviv, Israel
7400		EU/AS, USSR
7412	100	AIR Delhi, India
	20/300	Tel Aviv, Israel
7417		Hanoi, Vietnam
7420		EU, USSR
7440		EU/AS/FE, USSR
7443	25	UN, Geneva, Switzerland
7445	20/300	Tel Aviv, Israel
7462	20/300	Tel Aviv, Israel
7470		Hanoi, Vietnam
7480		R. Peking, China
		Vientiane, Laos
7504		R. Peking, China
7512		Tay Nguyen, Vietnam
7526	20	Peking (CPA), China
7580	120/240	Pyongyang, Korea (DR)
7590		R. Peking, China
7620		R. Peking, China
7650	1	Hakkari, Turkey
7660		R. Peking, China
7670	15	Stolnik, Bulgaria
7770		R. Peking, China
7780		R. Peking, China
7850		Fuzhou (PLA), China
7935		R. Peking, China
8005		R. Peking, China
8195		Fuzhou (PLA), China
8240		R. Peking, China
8345		R. Peking, China
8395		Luang Prabang, Laos
8425		R. Peking, China
8450		R. Peking, China
8490		R. Peking, China
8660		R. Peking, China
8775		Beihai, China
9009	30/300	Tel Aviv, Israel
9020		R. Peking, China
9022	350	Tehran, Iran
	120/240	Pyongyang, Korea (DR)
9030		R. Peking, China
9064		R. Peking, China
9080		R. Peking, China
9170		R. Peking, China
9290		R. Peking, China
9355	20/300	Tel Aviv, Israel
9340		R. Peking, China
9355	20/300	Tel Aviv, Israel
9370	50/500	Tirana Albania
9375	50/240	R. Tirana, Albania
9380		R. Peking, China
9390		R. Peking, China
9410	100	BBC, Gt. Britain
9420	120/240	Pyongyang, Korea (DR)
9425	20/300	Tel Aviv, Israel
9430	50/240	R. Tirana, Albania
9435	20/300	Tel Aviv, Israel

kHz	kW	Stations and Countries
9440		R. Peking, China
	30/100	Tel Aviv, Israel
9445	250	Sackville (CBC), Canada
9448		Hanoi, Vietnam
9450		EU/AS/FE, USSR
9455	100	Cairo, Egypt
9460		R. Peking, China
	10/50	Karachi, Pakistan
9470		EU/AS, USSR
		R. Peking, China
9475	100	Cairo, Egypt
9480	50/240	R. Tirana, Albania
		EU/AS, USSR
		R. Peking, China
9490		EU, USSR
		Lasa, China
9495	100	Cairo, Egypt
		Qinghai, China
	20/300	Tel Aviv, Israel
		9500-9775 kHz (31 metre band)
9500	50/500	R. Tirana (RP), Albania
	50/100	R. Berlin Int, GDR
		Magadan, USSR
		EU/AS, USSR
		R. Peking, China
9505	120	Prague, Czechoslovakia
	500	Issoudum, France
		RFE/RL
	100	Arganda (RNE), Spain
		AS, USSR
		Alma Ata, USSR
	10	R. Belgrade, Yugoslavia
	100	Tangier (VOA), Morocco
	50	Omdurman, Sudan
	20/100	Tel Aviv, Israel
	100	R. Japan, Japan
	50/100	FEBC, Philippines
	50	R. TV. Dominicana,
		Dominican Republic
	10	R. Cultural, Guatemala
	1	R. Universo, Bolivia
	7.5	R. Record, Brazil
	0.2	R. Tacna, Peru
	5	R. America, Peru
9510	100	R. Berlin Int, GDR
	250	Kavala (VOA), Greece
	18/120	Bucharest, Rumania
		EU, USSR
	50	Algiers, Algeria
	35	Tangier (VOA), Morocco
		R. Peking, China
	100	AIR Madras, India
	7.5	RRI Ujung Pandang, Indonesia
	120/240	Pyongyang, Korea(DR)
	25/100	Taipei (VOFC), Taiwan
	4	R. Noumea, New Caledonia
	250	Sackville (BBC), Canada
	250	Greenville (VOA), USA
	1/30	R. Nacional, Chile
	100	R. St. HCJB, Ecuador
	10	R. Barquisimeto, Venezuela
9515	250	Wofferton (VOA), Gt. Britain
	5	Caltanisetta, Italy
		EU, USSR
	50	Monrovia (VOA), Liberia
	250	Soroti, Uganda
	100	AIR Delhi , India
	50	Kuala Lumpur, Malaysia
	100	R. Ankara, Turkey
	10	Shepparton, Australia
	10	La Voz de la América Latina, Mexico
	1	R. Roqueto Pinto, Brazil
	5	R. La Cronica, Peru
	10	R. Sarandí, Uruguay
		RFE/RL
9520	350	Noblejas (RNE), Spain
		EU/AS/FE, USSR
	25	Trans World Radio, Swaziland
	250	R. Kuwait, Kuwait
	10	Port Moresby, Papua New Guinea

kHz	kW	Stations and Countries
9520	250	Greenville (UN), USA
	0.05	R. Bonanza, Nicaragua
9525	500	Issoudum, France
	100	Trans World Radio, Monaco
	100	Warsaw, Poland
	100	Voice of the Gospel, Ethiopia
	250	AIR Aligarh, India
	100	R. Japan, Japan
	50	Bethany (VOA), USA
	250	Greenville (VOA/UN), USA
	50	Family Radio, USA
	50	R. Habana, Cuba
9530		R. Moscow (Relay), Bulgaria
		RFE/RL
	250	Wofferton (VOA), Gt. Britain
	18/120	Bucharest, Rumania
	350	Noblejas (RNE), Spain
		EU/AS, USSR
	35	Tangier (VOA), Morocco
	100	R. Japan, Japan
	100	Amman, Jordan
	35	Poro (VOA), Philippines
	250	Greenville (VOA/UN), USA
	1	R. Nacional, Chile
	2	R. Calendario, Venezuela
9532	0.2	R. Nacional, Tacna, Peru
9535	100	Allouis, France
	100/500	SBC, Switzerland
	100	R. Nacional, Luanda, Angola
	0.3/0.6	6 sts (NHK), Japan
	10	Kuching, Sarawak
	50	Shepparton, Australia
	250	Sackville (CBC), Canada
	50	Trans World Radio, Bonaire
9540	100	BBC Limassol, Cyprus
	120	Prague, Czechoslovakia
		RFE/RL
	250	Kavala (VOA), Greece
	100	Warsaw, Poland
	18/120	Bucharest, Rumania
		EU/AS/FE, USSR
		Minsk, USSR
	100	Voice of the Gospel, Ethiopia
	100	Tangier (VOA), Morocco
	50/100	Shepparton, Australia
	7.5	Wellington, New Zealand
	250	Greenville (UN), USA
	100	R. St. HCJB, Ecuador
9545	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
		FE, USSR
	100	Tema, Ghana
	100	Beirut, Lebanon
	100	Islamabad, Pakistan
	50	Poro (VOA), Philippines
	50	Damascus, Syria
	5	Honiara, Solomon Islands
	250	Dixon (VOA), USA
	50/250	Delano (VOA), USA
	250	Deutsche Welle, Antigua
	0.25	La Voz de Vera Cruz, Mexico
	15	Deutsche Welle, Montserrat
	7.5	R. Universo, Brazil
9550	50	Sofia, Bulgaria
	100	Pori, Finland
	100	Fredrikstad, Norway
	18/120	Bucharest, Rumania
		EU/AS, USSR
	100	Cairo, Egypt
	50	R. ELWA, Liberia
	0.9	Tokyo (NHK), Japan
	14	R. Maldives, Maldives
	5	R. Grenada, Grenada
	2	R. Nacional, Tumbes, Peru
9555		RFE/RL
	100	Daventry (CBC), Gt. Britain
	250	Wofferton (VOA), Gt. Britain
		EU, USSR
	250	R. Kuwait, Kuwait
	250	Tinang (VOA), Philippines
	50/250	Sackville (CBC), Canada

kHz	kW	Stations and Countries
9555	50/100	Family Radio, USA
	250	Delano (UN), USA
	5	R. Nacional, El Salvador
	0.5	La Hora Exacta, Mexico
	10	R. Illimani, Bolivia
9560	50	R. Sofia, Bulgaria
	100	Allouis, France
	100	Schwarzenburg, Switzerland
		EU/AS, USSR
	50	R. Nacional España, Canary Islands
	100	SABC, South Africa
	100	Amman, Jordan
	35	Okinawa (VOA), Japan
	100/250	Carnarvon, Australia
	250	Greenville (VOA), USA
	250	BBC, Antigua
	10	R. Nacional, Chile
	100	R. St. HCJB, Ecuador
9562	50	R. Nacional, Lima, Peru
9565		RFE/RL
	250	Kavala (VOA), Greece
	250	Cyclops (DW), Malta
	250	Sines, Portugal
		AS/FE, USSR
	100	Tripoli, Libya
	250	Kigali (DW), Rwanda
	250	Dixon (VOA), USA
	200	Delano (VOA), USA
	250	Greenville (VOA), USA
9570	60	Warsaw, Poland
	120	Bucharest, Rumania
	350	Noblejas (RNE), Spain
		R. Warsaw (via EU, USSR)
	10	R. TV. Kaduna, Nigeria
	100	AIR Delhi, India
	100	Doha, Qatar
	100	BBC Tebrau, Malaysia
	100	Shepparton, Australia
	50/250	Sackville (CBC), Canada
	50	Trans World Radio, Bonaire
9572	10	R. Diego Portales, Chile
9574		Ulan Bator, Mongolia
9575	60/100	Rome, Italy
		EU/AS/FE, USSR
	100	Cairo, Egypt
	4	Niamey, Niger
	100	AIR Delhi, India
	100	AIR Bombay, India
	10	Taipei (VOFC), Taiwan
	1	Godthaab, Greenland
9576	5	R. Comercial, El Salvador
9579	50	R. Pilipinas, Philippines
9580	100	Munich (VOA), Germany
	100/250	BBC (D/S), Gt. Britain
		EU, USSR
	250	BBC, Ascension Island
	50	Lusaka, Zambia
	250	R. Kuwait, Kuwait
	100/250	BBC Tebrau, Malaysia
	50/350	Riyadh, Saudi Arabia
	50/100	Shepparton, Australia
	250	Sackville (BBC), Canada
	50	Greenville (VOA), USA
9585	500	Issoudum, France
	100/250	R. Budapest, Hungary
		Yakutsk, USSR
	50	Mogadishu, Somalia
	250	RSA, South Africa
	100	R. Japan, Japan
	20	Damascus, Syria
	10	R. Excelsior, Brazil
	100	R. St. HCJB, Ecuador
9590	20/100	BBC Limassol, Cyprus
	250	Cyclops (DW), Malta
	18/120	Bucharest, Rumania
	100/250	Schwarzenburg, Switzerland
		EU/AS, USSR
	100	Voice of the Gospel, Ethiopia
	25	Trans World Radio, Swaziland
	250	AIR Aligarh, India
	50/100	AIR Delhi, India

kHz	kW	Stations and Countries
9590	100/250	BBC Tebrau, Malaysia
	50	Greenville (VOA), USA
	250	Deutsche Welle, Antigua
	15	Deutsche Welle, Montserrat
	300	R. Nederland, Bonaire
	10	R. Pres. Balmaceda, Chile
	0.2 -	R. Ica, Peru
9595		RFE/RL
	50	NSB Tokyo, Japan
	1	R. Cultura da Bahia, Brazil
9600	120	Prague, Czechoslovakia
	100	R. Berlin Int., GDR
	100/250	BBC, Gt. Britain
	350	Noblejas (RNE), Spain
		EU/AS, USSR
		Magadan, USSR
	250	BBC, Ascension Island
		Wulumqi, China
	250	Gimje, Korea (Rep)
	25/100	Taipei (VOFC), Taiwan
	100	Shepparton, Australia
	50	Greenville (VOA), USA
	1	R. Universidad, Mexico
	15/50	BBC, Montserrat
	1	R. Augustin Aspiazu, Bolivia
	0.5	R. Talara, Peru
	0.5	R. Huaraz, Peru
9605	100	BBC Limassol, Cyprus
	120	Prague, Czechoslovakia
	500	Issoudum, France
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Fredrikstad, Norway
	350	Hörby, Sweden
	100	Vatican Radio, Vatican
		EU, USSR
	100	R. Ethiopia, Ethiopia
	30	FEBA, Seychelles
	100	R. Japan, Japan
	250	Tinang (VOA), Philippines
	10	Kuching, Sarawak
	250	Sackville (CBC/DW), Canada
	250	Dixon (VOA), Canada
	50/250	Delano (VOA), USA
	250	Deutsche Welle, Antigua
	0.5	La Voz de Panama, Panama
	250	R. Nacional Brasilia, Brazil
9607	1	R. Piraí, Bolivia
9610	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
	250	Sines (DW), Portugal
		EU/FE, USSR
	100	Algiers, Algeria
	50	R. TV. Congolaise, Congo
	0.08	RRI Sorong, Indonesia
	10	Perth, Australia
	1	R. Nacional, Iquitos, Peru
	3	R. Sideral, Peru
9613	5	RRI Jayapura, Indonesia
9615	500	Wertachtal (DW), Germany
	250	Sines, Portugal
		EU, USSR
	100	Vatican Radio, Vatican
	250	Monrovia (VOA), Liberia
	50	Tangier (RTM/VOA), Morocco
	250	AIR Aligarh, India
	20/50	AIR Delhi, India
	0.25	Philippine Bc. Sce, Philippines
	50	KGEI, Belmont, USA
		R. Millón, Costa Rica
9618	0.8	R. El Sol, Peru
9620	250	Wavre, Belgium
	100	Jülich (DW), Germany
	100	Munich (VOA), Germany
		RFE/RL
	250	Wofferton (VOA), Gt. Britain
		EU/FE, USSR
	100	R. Belgrade, Yugoslavia
	100	Maputo, Mozambique
	120	Abu Dhabi, United Arab Rep.

kHz	kW	Stations and Countries
9620		Ho Chih Minh City, Vietnam
	50/250	Sackville (CBC), Canada
	500	Greenville (VOA), USA
	50	Greenville (UN), USA
	100	R. St. HCJB, Ecuador
	0.8	SODRE, Uruguay
9625	250	Daventry (CBC), Gt. Britain
	18/120	Bucharest, Rumania
	100	Schwarzenburg, Switzerland
		EU/AS, USSR
	100	Vatican Radio, Vatican
	250	AIR Aligarh, India
	250	Tinang (VOA), Philippines
	250	Sackville (CBC), Canada
	1	R. Atlántida, Peru
9630	120	Prague, Czechoslovakia
	100	Rome, Italy
	350	Noblejas (RNE), Spain
	350	Karlsborg, Sweden
		EU, USSR
	35/100	Tangier (UN), Morocco
	100	AIR Delhi, India
	300	Tel Aviv, Israel
		Vientiane, Laos
	250	Tinang (VOA), Philippines
	10	BCC, Taiwan
	250/500	Greenville (VOA), USA
	300	R. Nederland, Bonaire
9635	100/250	BBC (S/R), Gt. Britain
	250	Daventry (CBC), Gt. Britain
	100	R. Dif. Portuguesa, Portugal
	350	Hörby, Sweden
		AS/FE, USSR
	18	Bamako, Mali
	100	Beira, Mozambique
	50	R. Singapore, Singapore
	50/250	Sackville (CBC), Canada
	250	Greenville (VOA), USA
	10	R. Aparecida, Brazil
	25	R. Nacional, Colombia
	100	R. St. HCJB, Ecuador
9640	20/100	BBC Limassol, Cyprus
	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	250	BBC (R), GT. Britain
	100	Trans World Radio, Monaco
		EU, USSR
	10	Ejura, Ghana
	50	Suwon, Korea (Republic)
	250	Greenville (VOA/UN), USA
	250	Deutsche Welle, Antigua
	2	R. Ondas de Luz, Nicaragua
9645	100	Fredrikstad, Norway
		AS/FE, USSR
	100	Vatican Radio, Vatican
	100	AIR Delhi, India
	100	Islamabad, Pakistan
	10/50	Karachi, Pakistan
		Tay Bac, Vietnam
	0.5	Farao del Caribe, Costa Rica
	9.5	R. Bandeirantes, Brazil
9650	100	Vienna, Austria
	100/250	Wavre, Belgium
	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	250	Cyclops (DW), Malta
	250	Sines (DW), Portugal
		EU/AS, USSR
	100	Conakry, Guinea
	100	Tangier (VOA), Monaco
	350	Gafsa, Tunisia
	50	R. Kuwait, Kuwait
	250	Tinang (VOA), Philippines
	250	Dixon (VOA/UN), USA
	250	Delano (VOA), USA
	250	Greenville (UN), USA
	1	R. Dimension, Chile
9652	100	Baghdad, Israel
9653		Lasa, China
9655		Sofia (R. Moscow), Bulgaria
	100	R. Budapest, Hungary

kHz	kW	Stations and Countries
9655	250	Cyclops (DW), Malta
	100	Trans World Radio, Monaco
		EU, USSR
	100	R. Thailand, Thailand
	50/250	Sackville (CBC), Canada
	10/100	R. Habana, Cuba
9660	500	Issoudum, France
		RFE/RL
	250	BBC (S/D), Gt. Britain
	250	Kavala (VOA), Greece
	100	R. Nederland, Holland
	350	Karlsborg, Sweden
		EU/FE, USSR
	100	Vatican Radio, Vatican
	10	Brisbane, Australia
	250	Dixon (VOA/UN), USA
	10	R. Rumbos, Venezuela
9665		Sofia (R. Moscow), Bulgaria
	50/500	R. Berlin Int., GDR
	350	Karlsborg, Sweden
		EU/AS, USSR
	100	Cairo, Egypt
	30	FEBA, Seychelles
	100	Nairobi, Kenya
	50	Kuala Lumpur, Malaysia
	10	R. Nacional Brasilia, Brazil
	1	R. Eco, Peru
9670	100	BBC Limassol, Cyprus
	250	Sines (RTE), Portugal
		R. Peking, China
	200	R. Japan, Japan
	100/250	BBC Tebrau, Malaysia
	50	Jeddah, Saudi Arabia
	35	Colombo (VOA), Sri Lanka
	50/500	Greenville (VOA), USA
9675	100	Warsaw, Poland
	100	Trans World Radio, Monaco
		EU, USSR
	100	Cairo, Egypt
	250	AIR Aligarh, India
	20	AIR Delhi, India
	100	R. Japan, Japan
	50	R. Veritas, Philippines
	25/100	Taipei (VOFC), Taiwan
	10	R. Diario da Manhã, Brazil
	5	R. del Pacifico, Peru
9680	100	Munich (VOA), Germany
		RFE/RL
	250	BBC (S), Gt. Britain
	250	Kavala (VOA), Greece
	100	Cairo, Egypt
	100	SABC, South Africa
	350	Tehran, Iran
	10	Melbourne, Australia
	250	Deutsche Welle, Antigua
	100	R. St. HCJB, Ecuador
9685	100	Daventry (CBC), Gt. Britain
	18/120	Bucharest, Rumania
		EU, USSR
	100	Algiers, Algeria
	50	Dar es Salaam, Tanzania
	25	Panchiao (VOFC), Taiwan
	50/250	Sackville (CBC), Canada
	50	R. Habaña, Cuba
	50	Trans World Radio, Bonaire
	7.5	R. Gazeta, Brazil
	25	R. Nacional, Colombia
	3	R. Continental, Peru
9690	100	Vienna, Austria
	20/100	BBC Limassol, Cyprus
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	18/120	Bucharest, Rumania
		EU/FE, USSR
	10	Tananarive, Malagasy Republic
9690r	100	Nouakchott, Mauritania
	50	Karachi, Pakistan
	10	Taipei (BCC), Taiwan
	100	Family Radio, USA
	250	Deutsche Welle, Antigua
	15	Deutsche Welle, Montserrat

kHz	kW	Stations and Countries
9690	100	R. Nacional, Argentina
	10	R. Coop. Vitalicia, Chile
9695	500	Issoudum, France
	350	Karlsborg/Hörby, Sweden
		EU, USSR
	250	BBC, Ascension Island
	0.5	Rarotonga, Cook Islands
	7.5	R. Rio Mar, Brazil
9700	50/120	R. Sofia (R. Moscow), Bulgaria
	100	Jülich (DW), Germany
	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	250	BBC, Ascension Island
	250	Kigali (DW), Rwanda
	200	R. Japan, Japan
	250	Carnarvon, Australia
	100	Dixon (AFRTS), USA
	1	R. Sucesos, Venezuela
9705		RFE/RL
		EU, USSR
	50	Algiers, Algeria
	100	Voice of the Gospel, Ethiopia
	20	Niamey, Niger
	250	AIR Aligarh, India
	20	R. Japan, Japan
	250	Greenville (VOA), USA
	10	R. Mexico, Mexico
	7.5	R. El Mundo, Argentina
	7.5	R. Ipanema, Brazil
9710	35	Thessaloniki (EPT), Greece
	100	Rome (RAI/UN), Italy
		Kaunas, USSR
		EU/AS/FE, USSR
	100	Cairo, Egypt
	10	Forest Side, Mauritius
	100	SABC, South Africa
	50	RRI Jakarta, Indonesia
	10	Penang, Malaysia
	1	R. Tropical, Peru
9715	50/500	R. Tirana, Albania
	100	Allouis, France
	100	BBC (S), Gt. Britain
	250	Wofferton (VOA), Gt. Britain
	100	R. Nederland, Holland
		EU/AS, USSR
	50	RTV Congolaise, Congo
	50	Tangier (VOA/UN), Morocco
	250	R. Kuwait, Kuwait
	50	FEBC, Philippines
	50/100	Family Radio, USA
	300	R. Nederland, Bonaire
	10/100	R. Habaña, Cuba
	1	R. La Plata, Bolivia
	100	R. St. HCJB, Ecuador
9720	100	Pori, Finland
	350	Hörby, Sweden
		EU/AS, USSR
	50	Riyadh, Saudi Arabia
	35	Colombo, Sri Lanka
	1	R. Victoria, Peru
9725	100	Wavre, Belgium
		RFE/RL
	100	Schwarzenburg, Switzerland
		Yakutsk, USSR
		FE, USSR
	10/120	Algiers, Algeria
	100	Cairo, Egypt
	50	Rangoon, Burma
	20/300	Tel Aviv, Israel
	100/250	BBC Tebrau, Malaysia
	250	Tinang (VOA), Philippines
	50	Greenville (VOA), USA
	100	Family Radio, USA
9730	100	Wavre, Belgium
	50	R. Berlin Int., GDR
		EU, USSR
	250	Soroti, Uganda
	100	Air Delhi, India
	50/350	Riyadh, Saudi Arabia
	10	Shepparton, Australia
	250	Dixon (VOA), USA

kHz	kW	Stations and Countries
9730	50/250	Delano (VOA), USA
	1	R. La Hora, Peru
9735	500	Wertachtal (DW), Germany
	250	Wofferton (VOA), Gt. Britain
	250	Cyclops (DW), Malta
	100	Trans World Radio, Monaco
	100	Schwarzenburg, Switzerland
		EU/FE, USSR
	100	Tangier (VOA), Morocco
	250	Kigali (DW), Rwanda
	250	Deutsche Welle, Antigua
9740	120	Prague, Czechoslovakia
	250	Kavala (VOA), Greece
	100	R. Dif. Portuguesa, Portugal
		EU/AS, USSR
	250	Monrovia (VOA), Liberia
	250	BBC Tebrau, Malaysia
	10	R. Splendid, Argentina
9745	100	Vienna, Austria
	100	Wavre, Belgium
		R. Moscow (Relay), Bulgaria
	350	Karlsborg, Sweden
		EU, USSR
	50	Bamako, Mali
		R. Peking, China
	5	RRI Merauke, Indonesia
	3.5	Air Force Station, Taiwan
	250	Greenville (UN), USA
	250	BBC, Antigua
	7.5	R. Cultura, Brazil
	100	R. St. HCJB, Ecuador
9750	50/240	R. Tirana, Albania
	20	BBC Limasol, Cyprus
	250	Wofferton (VOA), Gt. Britain
	100/250	BBC (S), Gt. Britain
	100	Athens, Greece
	350	Karlsborg, Sweden
	100	Schwarzenburg, Switzerland
		EU/AS, USSR
	250	Monrovia (VOA), Liberia
	10/50	Dar es Salaam, Tanzania
	100	AIR Madras, India
	100	Kuala Lumpur, Malaysia
	4	Papeete, Tahiti
	5	R. Minería,
9755	100	R. Berlin Int., GDR
	60	Warsaw, Poland
		R. Warsaw (via EU), USSR
		FE, USSR
	100	Cairo, Egypt
	100	Voice of the Gospel, Ethiopia
		Shanghai, China
	100	AIR Delhi, India
	175/250	Bethany (AFRTS/UN), USA
	50	Trans World Radio, Bonaire
	7.5	R. Brasil Central, Brazil
	3	R. Sideral, Peru
9758	100/250	Baghdad, Iraq
9760	50/500	R. Tirana, Albania
	250	Wofferton (VOA), Gt Britain
	100	Athens, Greece
		EU/FE, USSR
	100	Voice of the Gospel, Ethiopia
	100	Tangier (VOA), Morocco
	10	NSB Tokyo, Japan
	50	Tinang (VOA), Philippines
	100	Shepparton, Australia
	10	La Voz de Guatemala, Guatemala
	15	Deutsche Welle, Montserrat
	50	Trans World Radio, Bonaire
	100	R. St. HCJB, Ecuador
9765	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
		EU/AS, USSR
	250	BBC, Ascension Island
	30	FEBA, Seychelles
	100	Tehran, Iran
	500	Greenville (VOA), USA
	100	R. St. HCJB, Ecuador
9770	100	Vienna, Austria

kHz	kW	Stations and Countries
9770	100	Munich (VOA), Germany
	250	Sines (CBC), Portugal
	250	Kavala (VOA), Greece
		EU/AS/FE, USSR
	100	Cairo, Egypt
	100	Tangier (VOA), Morocco
	100	Poro (VOA), Philippines
	7.5	Wellington, New Zealand
	300	R. Nederland, Bonaire
	2.5	4VEH, Haiti
	1	R. Samarén, Peru
		9775–11700 kHz
9775		EU, USSR
9780	50/500	R. Tirana (RP), Albania
		AS/FE, USSR
		Alma Ata, USSR
	50	San'a, Yemen
9785		EU/AS, USSR
	20/300	Tel Aviv, Israel
9790	50/500	R. Tirana, Albania
		EU/AS/FE, USSR
9795		EU/AS, USSR
9800		EU/AS, USSR
9805	100	Cairo, Egypt
9810		EU/AS/FE, USSR
9815	20/300	Tel Aviv, Israel
9820		R. Peking, China
	120/240	Pyongyang, Korea (DR)
9825	100	BBC, Gt. Britain
9833	15/100	R. Budapest, Hungary
9840		R. Peking, China
		Tay Nguyen, Vietnam
9850		EU, USSR
	100	Cairo, Egypt
9860		R. Peking, China
9880		R. Peking, China
9887		Hanoi, Vietnam
9912	100	AIR Delhi, India
9915	250	Wofferton (BBC), Gt. Britain
9920		R. Peking, China
9940		R. Peking, China
9950	20/100	AIR Delhi, India
9965		R. Peking, China
9977	120/140	Pyongyang, Korea (DR)
10010		Hanoi, Vietnam
10040		Hanoi, Vietnam
10060		Hanoi, Vietnam
10225		Hanoi, Vietnam
10245		R. Peking, China
10260		R. Peking, China
10335	20/100	AIR Delhi, India
10865		R. Peking, China
11040		R. Peking, China
11100		R. Peking, China
11120	20	Peking (CPA), China
11290		R. Peking, China
11330		R. Peking, China
11375		R. Peking, China
11420		R. Peking, China
11445		R. Peking, China
11455		R. Peking, China
11505		R. Peking, China
11515		R. Peking, China
11535	120/240	Pyongyang, Korea (DR)
11600		R. Peking, China
11602	20/300	Tel Aviv, Israel
11620	100	AIR Delhi, India
11625	20/300	Tel Aviv, Israel
11630		EU, USSR
	100	Cairo, Egypt
		R. Peking, China
11640	20/300	Tel Aviv, Israel
11645	20/300	Tel Aviv, Israel
11650		R. Peking, China
11655	20/300	Tel Aviv, Israel
11660	5	R. Hargeisa, Somalia
		R. Peking, China
11675	100	R. Peking, China
		Islamabad, Pakistan
11680	100/250	BBC, Gt. Britain

kHz	kW	Stations and Countries
11685		R. Peking, China
11690		EU/AS/FE, USSR
11695		R. Peking, China
		11700–11975kHz (25 metre band)
11700	250	R. Berlin Int., GDR
	25/100	Vatican Radio, Vatican
	20/300	Tel Aviv, Israel
	50	R. Clarin, Dominican Republic
11705	500	Issoudum, France
		RFE/RL
	350	Karlsborg/Hörby, Sweden
		EU, USSR
	100	Vatican Radio, Vatican
	100	R. Japan, Japan
	50	Shepparton, Australia
	7.5	Wellington, New Zealand
	100	Family Radio, USA
11710	250	Wofferton (VOA), Gt. Britain
		EU/AS/FE, USSR
	100	Lagos (NBC), Nigeria
	4	R. Noumea, New Caledonia
	250	Greenville (VOA), USA
	100	R. Nacional, Argentina
	50	R. Nacional, Venezuela
11715	100	Schwarzenburg, Switzerland
		EU, USSR
	100	Vatican Radio, Vatican
	100	Cairo, Egypt
	35	Tangier (VOA), Morocco
	25	Trans World Radio, Swaziland
	20	AIR Delhi, India
	250	Tinang (VOA), Philippines
	35	Colombo (VOA), Sri Lanka
	175	Bethany (UN), USA
11720	7.5	BBC Limassol, Cyprus
	100	BBC (S), Gt. Britain
	500	Sottens, Switzerland
		EU/AS/FE, USSR
	120/240	R. Peking, China
	250	Sackville (CBC), Canada
	50	Family Radio, USA
	50	KGEI, Belmont, USA
	10	R. Nacional Brasilia, Brazil
11725		RFE/RL
		EU, USSR
	100	Vatican Radio, Vatican
	100	AIR Delhi, India
	50	R. Veritas, Philippines
	50	Shepparton, Australia
	10	R. Habana, Cuba
11730	100	Issoudum, France
	100	R. Nederland, Holland
	350	Noblejas (RNE), Spain
		EU/AS/FE, USSR
	300	R. Nederland, Malagasy Republic
	250	Greenville (VOA), USA
	300	R. Nederland, Bonaire
	5	R. Nuevo Mundo, Chile
11735	100/500	Issoudum, France
	350	Hörby, Sweden
		EU, USSR
	10/100	R. Belgrade, Yugoslavia
	20/300	Tel Aviv, Israel
	100	AIR Delhi, India
	1	R. Clube de Goiâna, Brazil
	10	R. Oriental, Uruguay
11740	7.5	BBC Limassol, Cyprus
	250	Kavala (VOA), Greece
	100	R. Nederland, Holland
		EU/AS, USSR
	100	Vatican Radio, Vatican
	250	BBC, Ascension Island
	250	Monrovia (VOA), Liberia
	300	R. Nederland, Malagasy Republic
	250	AIR Aligarh, India
	35	Colombo (VOA), Sri Lanka
	50	Shepparton, Australia
	250	Greenville (VOA), USA
	250	Bethany (VOA/UN), USA
	50/250	Dixon (VOA), USA

kHz	kW	Stations and Countries
11745	100	Allouis, France
	500	Sottens, Switzerland
		EU, USSR
	100	Voice of the Gospel, Ethiopia
	20/300	Tel Aviv, Israel
	100	R. St. HCJB, Ecuador
11750	100	Vienna, Austria
		R. Moscow (Relay), Bulgaria
	100	BBC Limassol, Cyprus
	100	BBC (D), Gt. Britain
	100	Trans World Radio, Monaco
		EU, USSR
	10	Tokyo (FEN), Japan
	100	BBC Tebrau, Malaysia
	250	Islamabad, Pakistan
	50	Karachi, Pakistan
	30	R. Nacional, Venezuela
11755	15/250	Pori, Finland
		EU, USSR
		R. El Mundo, Argentina
11760	100	BBC Limassol, Cyprus
	100	Athens, Greece
		EU, USSR
	35/100	Tangier (VOA), Morocco
	25	Trans World Radio, Swaziland
	250	Tinang (VOA), Philippines
	100	Shepparton, Australia
	1	Rarotonga, Cook Islands
	250	Greenville (VOA/UN), USA
	100	R. Habana, Cuba
11765	50	R. Sofia, Bulgaria
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
		EU/AS, USSR
		Yakutsk, USSR
	100	AIR Delhi, India
	10	R. Tupí, Brazil
11770		RFE/RL
	350	Hörby, Sweden
	30	Hörby (SSB), Sweden
		EU/AS, USSR
	250	BBC, Ascension Island
	100	Voice of the Gospel, Ethiopia
	50	Tangier (VOA/UN), Morocco
	250	AIR Aligarh, India
	100	RRI Jakarta, Indonesia
	100	Aden, Yemen (PDR)
	250	Dixon (VOA), USA
	50/250	Delano (VOA), USA
11775	500	Wertachtal (DW), Germany
	18/120	Bucharest, Rumania
	350	Noblejas (RNE), Spain
	150/500	SBC, Switzerland
		EU/AS, USSR
	50	R. Elwa, Liberia
	250	AIR Aligarh, India
	20/300	Tel Aviv, Israel
	50	R. St. WINB, USA
11780	100	BBC (S), Gt. Britain
	350	Hörby, Sweden
	100	R. Japan, Japan
	120/240	Pyongyang, Korea (DR)
	7.5	Wellington, New Zealand
	8	R. Belgrano, Argentina
	250	R. Nacional Brasilia, Brazil
11785	500	Wertachtal (DW), Germany
	250	Cyclops (DW), Malta
	100	Arganda (RNE), Spain
		EU/AS, USSR
	100	Cairo, Egypt
	250	Kigali (DW), Rwanda
	50	FEBA, Seychelles
	100	Baghdad, Iraq
	50/350	Riyadh, Saudia Arabia
	7.5	R. Guaibá, Brazil
11790	100	Vienna, Austria
	100	Wavre, Belgium
	120	Bucharest, Rumania
		EU, USSR
	25/100	Vatican Radio, Vatican

kHz	kW	Stations and Countries
11790	100	SABC, South Africa
	100	RRI, Jakarta, Indonesia
	20/300	Tel Aviv, Israel
	10	Shepparton, Australia
	250	Greenville (AFRTS), USA
	15/50	BBC, Montserrat
	50/250	Trans World Radio, Bonaire
11795	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	250	Cyclops (DW), Malta
		FE, USSR
	100	Voice of the Gospel, Ethiopia
	250	Kigali (DW), Rwanda
	100	AIR Delhi, India
	7.5	Wellington, New Zealand
11800	100	Rome (UN), Italy
	8/100	Warsaw, Poland
		EU, USSR
	50	R. Nacional España, Canary Islands
	100	Voice of the Gospel, Ethiopia
	250	RSA, South Africa
	100	Beirut, Lebanon
	100	Colombo, Sri Lanka
	50/250	TWR Bonaire, Neth. Antilles
11805	250	Wavre, Belgium
	100	BBC (S), Gt. Britain
	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
		EU, USSR
	250	Monrovia (VOA), Liberia
	250	Tinang (VOA), Philippines
	250	Greenville (VOA), USA
	200	Dixon (VOA/AFRTS), USA
	100	Family Radio, USA
	10	R. Globo, Brazil
11810	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	60	Rome, Italy
	350	Noblejas (RNE), Spain
		EU/AS, USSR
	100	Algiers, Algeria
	30	FEBA, Seychelles
	250	AIR Aligarh, India
	5	Amman, Jordan
	100	Shepparton, Australia
	250	Deutsche Welle, Antigua
	1/30	R. Nacional, Chile
11815		RFE/RL
	100	Warsaw, Poland
	250	BBC, Ascension Island
	100	R. Japan, Japan
	250	Tinang (VOA), Philippines
	50/250	Trans World Radio, Bonaire
	7.5	R. Brasil Central, Brazil
11820		EU/AS, USSR
	250	BBC, Ascension Island
	120	Maputo, Mozambique
	100	Shepparton, Australia
	0.15	Hermosillo, Mexico
11825		RFE/RL
		AS, USSR
	25/100	Vatican Radio, Vatican
	250	AIR Aligarh, India
	250	R. Kuwait, Kuwait
	50/350	Riyadh, Saudi Arabia
	25	Taipei (VOFC), Taiwan
	100	Shepparton, Australia
	20	Papeete, Tahiti
	25	R. Nacional, Colombia
11830	50	R. Berlin Int., GDR
	250	Kavala (VOA), Greece
	120	Bucharest, Rumania
		EU/FE, USSR
11830	100	Voice of the Gospel, Ethiopia
	100	AIR Bombay, India
	250	Tinang (VOA), Philippines
	100	R. Veritas, Philippines
	250	Bethany (VOA/UN), USA
	250	Dixon (VOA), USA
	50/250	Delano (VOA), USA
	50/250	Trans World Radio, Bonaire

kHz	kW	Stations and Countries
11835	100	Vienna, Austria
		RFE/RL
		EU/AS/FE, USSR
	120	Omdurman, Sudan
	35	Colombo, Sri Lanka
	2.5	4VEH, Haiti
	100	R. St. HCJB, Ecuador
	5	R. El Espectador, Uruguay
11840	250	Wofferton (VOA), Gt. Britain
	250	Kavala (VOA), Greece
	100	Warsaw, Poland
	120	Bucharest, Rumania
	100	R. Dif. Portuguesa, Portugal
		Yuzhno-Sakhalinsk, USSR
	35/100	Tangier (VOA), Morocco
	20	AIR Delhi, India
	50	R. Japan, Japan
	35	Poro (AFRTS), Philippines
	10	Lyndhurst, Australia
	250	Greenville (VOA), USA
	250	Trans World Radio, Bonaire
	100	R. St. HCJB, Ecuador
11845	50/500	R. Tirana, Albania
	100	Wavre, Belgium
	100	Allouis, France
	100	R. Nederland, Holland
	350	Hörby, Sweden
		EU, USSR
	250	R. Kuwait, Kuwait
	100	Shepparton, Australia
	100	R. St. HCJB, Ecuador
11850	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Kavala (VOA), Greece
	100	Fredrikstad, Norway
	150	Schwarzenburg, Switzerland
		EU/AS, USSR
	250	Ejura, Ghana
	50/100	AIR Delhi, India
	250	Greenville (VOA), USA
	50/250	Delano (VOA), USA
11855	120	Prague, Czechoslovakia
		RFE/RL
	120	Bucharest, Rumania
	50	Ulan Bator, Mongolia
	50	FEBC, Philippines
	50	Jeddah, Saudi Arabia
	50/250	Sackville (CBC), Canada
	50/100	Family Radio, USA
11860	250	Kavala (VOA), Greece
	100	Fredrikstad, Norway
		EU/AS/FE, USSR
	125/250	BBC, Ascension Island
	50	Suwon, Korea (Republic)
	25	Ulan Bator, Mongolia
	50	Panchiao (VOFC), Taiwan
11865	50/500	R. Tirana, Albania
	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
		RFE/RL
	250	Cyclops (DW), Malta
	250	Sines (DW), Portugal
	250	Monrovia (VOA), Liberia
	30	FEBA, Seychelles
		R. Peking, China
	250	Tinang (VOA), Philippines
	50	Jeddah, Saudi Arabia
	250	Sackville (CBC), Canada
	50/250	Delano (VOA), USA
	10	R. Habana, Cuba
	1	R. Cl. Pernambuco, Brazil
11870	100	Vienna, Austria
	150/250	Schwarzenburg, Switzerland
		EU/AS/FE, USSR
	100	Voice of the Gospel, Ethiopia
	30	FEBA, Seychelles
	100	AIR Bombay, India
11875		RFE/RL
	50/500	R. Berlin Int, GDR
	100	Athens, Greece
	100	R. Dif. Portuguesa, Portugal

kHz	kW	Stations and Countries
11875	100	R. Japan, Japan
	50	R. Veritas, Philippines
	100	Family Radio, USA
	10	R. Soc. da Bahia, Brazil
11880	100	Arganda (RNE), Spain
		EU, USSR
	50	Lusaka, Zambia
	100	AIR Delhi, India
	50	Poro (VOA), Philippines
	250	R. Ankara, Turkey
	10	Melbourne, Australia
	5	R. Seis, Mexico
	20	R. Splendid, Argentina
11885		RFE/RL
	18/120	Bucharest, Rumania
	100	SABC, South Africa
	100/250	Islamabad, Pakistan
	50	Karachi, Pakistan
	100	Family Radio, USA
	7.5	R. Ipanema, Brazil
	10	R. Sarandi, Uruguay
11890	100/500	Issoudum, France
		EU/AS, USSR
	100	Voice of the Gospel, Ethiopia
	100	Dacca, Bangladesh
	50	Muscat, Oman
	50/100	FEBC, Philippines
	350	Riyadh, Saudi Arabia
	250	Greenville (VOA), USA
	250	Bethany (VOA), USA
11895	100	Vienna, Austria
	100/250	Fredrikstad, Norway
		EU/FE, USSR
		Khabarovsk, USSR
	100	Dakar, Senegal
	20	AIR Delhi, India
	500	Greenville (VOA), USA
	250	Trans World Radio, Bonaire
	100	R. St. HCJB, Ecuador
11900		EU/AS, USSR
	100	Voice of the Gospel, Ethiopia
	100	Lagos (NBC), Nigeria
	250	RSA, South Africa
	100	Kuala Lumpur, Malaysia
	250	Greenville (UN), USA
11905	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	BBC (R), Gt. Britain
	60/100	Rome, Italy
		AS, USSR
	100	Voice of the Gospel, Ethiopia
	35	Tangier (VOA/UN), Morocco
	100	Minhsiung (BCC), Taiwan
	50	R. Thailand, Thailand
	50	KGEI Belmont, USA
11910	20/250	R. Budapest, Hungary
		EU/AS, USSR
	100	Algiers, Algeria
	100	BBC Tebrau, Malaysia
	100	R. St. HCJB, Ecuador
11914	40	R. Nacional, Lima, Peru
11915	250	Wofferton (VOA), Gt. Britain
		FE, USSR
	100	Cairo, Egypt
	250	Monrovia (VOA), Liberia
	35	Tangier (VOA), Morocco
	25/100	Taipei (VOFC), Taiwan
	250	Greenville (VOA), USA
	100/250	Dixon (VOA), USA
	10	R. Gaucha, Brazil
	100	R. Station HCJB, Ecuador
11920	250	Cyclops (DW), Malta
	350	Noblejas (RNE), Spain
	350	Hörby, Sweden
		EU/AS, USSR
	100	Abidjan, Ivory Coast
	50	FEBC, Philippines
	100	Dixon (VOA), USA
	250	Delano (VOA), USA
11925	500	Wertachtal (DW), Germany
		RFE/RL

kHz	kW	Stations and Countries
11925	100	Athens, Greece
	250	Kavala (VOA), Greece
	250	Cyclops (DW), Malta
	10	R. Dif. Portuguesa, Portugal
	50	Tashkent, USSR
	25/100	Taipei (VOFC), Taiwan
	250	Trans World Radio, Bonaire
	10	R. Bandeirantes, Brazil
11930	100/500	Issoudum, France
	100	R. Nederland, Holland
		EU/AS, USSR
	100	Voice of the Gospel, Ethiopia
	100	Tehran, Iran
	250	Tinang (VOA/UN), Philippines
11935	50/500	Tirana, Albania
		RFE/RL
	250	Fredrikstad, Norway
	100	R. Dif. Portuguesa, Portugal
		EU, USSR
	100	SABC, South Africa
	20	AIR Delhi, India
	35	Colombo (VOA), Sri Lanka
	100/250	Carnarvon, Australia
	50/250	Sackville (CBC), Canada
	50	Greenville (VOA), USA
	100	Family Radio, USA
	25	R. Cl. Paranaense, Brazil
11940	250	Wavre, Belgium
	18/120	R. Bucharest, Rumania
		AS, USSR
	50	R. ELWA, Liberia
	100	Dacca, Bangladesh
	50	R. Japan, Japan
	250	R. Kuwait, Kuwait
	50/350	Rifyadh, Saudi Arabia
	50	R. Singapore, Singapore
	50	Sackville (CBC), Canada
11945	500	Wertachtal (DW), Germany
	250	BBC (S/R), Gt. Britain
	350	Noblejas (RNE), Spain
	100	Voice of the Gospel, Ethiopia
	50	R. ELWA, Liberia
	35/100	Tangier (VOA/UN), Morocco
		R. Peking, China
	100	AIR Delhi, India
	100	AIR Bombay, India
	100	Family Radio, USA
11950	100	Vienna, Austria
	100	R. Nederland, Holland
	350	Hörby, Sweden
	500	Sottens, Switzerland
		EU, USSR
		Alma Ata, USSR
	50	R. ELWA, Liberia
	50	Riyadh, Saudi Arabia
	10	R. Min. Educação, Brazil
11955	100/250	BBC (S/R), Gt. Britain
		EU, USSR
	100	Voice of the Gospel, Ethiopia
	35	Tangier (VOA), Morocco
	100	BBC Tebrau, Malaysia
	500	Greenville (VOA/UN), USA
11960	100	Munich (VOA), Germany
	250	Wofferton (VOA), Gt. Britain
	100	R. Nederland, Holland
		EU/AS/FE, USSR
	50	Bamako, Mali
	100/300	Tel Aviv, Israel
	200	R. Japan, Japan
	7.5	Wellington, New Zealand
	5	R. Minería, Chile
	100	R. St. HCJB, Ecuador
11965	100	Allouis, France
	350	Noblejas (RNE), Spain
		EU/AS, USSR
	100	Conakry, Guinea
	250	Kigali (DW), Rwanda
	20/300	Tel Aviv, Israel
	250	Tinang (VOA), Philippines
	100	Shepparton, Australia
	7.5	R. Panamericana, Brazil

kHz	kW	Stations and Countries
11970	50	Sofia, Bulgaria
	100	Jülich (DW), Germany
		RFE/RL
		EU/AS/FE, USSR
	250	Monrovia (VOA), Liberia
	50	Sfax, Tunisia
	3	Minhsiung (BCC), Taiwan
	50/250	Sackville (CBC), Canada
	50	R. Habana, Cuba
	15	Deutsche Welle, Montserrat
11975	100	R. Berlin, Int., GDR
		EU, USSR
	100	R. Nacional, Angola
		11980–15100kHz
11980		EU/AS, USSR
		R. Peking, China
11985	50/500	R. Tirana, Albania
		EU, USSR
11990	120	Prague, Czechoslovakia
		EU/FE, USSR
		R. Peking, China
11995		Moghilev, USSR
12000		EU/FE, USSR
12005		Minsk, USSR
	100	Cairo, Egypt
12010		EU/SA/FE, USSR
12015		R. Peking, China
12020		EU/FE, USSR
12025	20/300	Tel Aviv, Israel
12030		EU/AS, USSR
12035		EU, USSR
		Hanoi, Vietnam
12040	100/250	BBC, Gt. Britain
		EU/AS, USSR
12045		EU, USSR
	20/300	Tel Aviv, Israel
12050		EU/AS/FE, USSR
12055		EU, USSR
		R. Peking, China
12060		EU/AS, USSR
12070		EU/AS. USSR
	120/240	Pyongyang, Korea (DR)
12074	20	Peking (CPA), China
12075	120/240	Pyongyang, Korea (DR)
12077	20/300	Tel Aviv, Israel
12095	100/250	BBC, Gt. Britain
12110		R. Peking, China
12120		R. Peking, China
12200		R. Peking, China
12420		R. Peking, China
12450		R. Peking, China
13365	20/300	Tel Aviv, Israel
13700	20	Peking (CPA), China
13845	20	Peking (CPA), China
14820	20	Peking (CPA), China
15012		Hanoi, Vietnam
15030		R. Peking, China
15045		R. Peking, China
15060		R. Peking, China
15070	100/250	BBC, Gt. Britain
15080		R. Peking, China
	100	AIR Bombay, India
15084	250	Kamalabad, Iran
15095		R. Peking, China
		15100–15450kHz (19 metre band)
15100	50	R. Berlin Int., GDR
		EU/AS/FE, USSR
	20/300	Tel Aviv, Israel
15105	100	Vienna, Austria
	100	BBC Limassol, Cyprus
	250	BBC, Ascension Island
	100	R. Japan, Japan
	5	R. Grenada, Grenada
15110	120	Prague, Czechoslovakia
	100	Pori, Finland
		EU/AS, USSR
	250	Islamabad, Pakistan
	100	Family Radio, USA
	5	R. Seis, Mexico

kHz	kW	Stations and Countries
15115		RFE/RL
	100	R. Berlin Int., GDR
		AS, USSR
	50	Jeddah, Saudi Arabia
	50/250	Delano (VOA), USA
	100	R. St. HCJB, Ecuador
15120	100	R. Nederland, Holland
	100	Warsaw, Poland
	100	Vatican Radio, Vatican
	100	Lagos (NBC), Nigeria
	100	Colombo, Sri Lanka
15125	20/100	BBC Limassol, Cyprus
	100	R. Dif. Portuguesa, Portugal
	250	Monrovia (VOA/UN), Liberia
	250	RSA, South Africa
	100	Taipei (VOFC), Taiwan
	20/300	Tel Aviv, Israel
	10	R. Mexico, Mexico
	10	R. Soc. da Bahia, Brazil
15130	100/250	Wavre, Belgium
		RFE/RL
	50/500	R. Berlin Int., GDR
		EU/FE, USSR
	100	Cairo, Egypt
	30/100	Tel Aviv, Israel
	7.5	Wellington, New Zealand
	50/100	Family Radio, USA
15135	100	Issoudum, France
	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
	100/250	Fredrikstad, Norway
	100	Cairo, Egypt
	250	Tehran, Iran
	7.5	R. Record, Brazil
15140	100/250	Schwarzenburg, Switzerland
		EU/FE, USSR
	100	Tangier (UN), Morocco
	20/100	AIR Delhi, India
	100	AIR Bombay, India
	10	Shepparton, Australia
	175	Bethany (VOA), USA
15145		RFE/RL
	100	R. Berlin Int., GDR
	10	R. Jornal do Comercio, Brazil
15150		EU/AS, USSR
	100	Tangier (UN), Morocco
	35	Colombo (VOA), Sri Lanka
	100	Family Radio, USA
	100	R. Nacional, Chile
15155	100/500	Issoudum, France
		EU/AS, USSR
	250	RSA, South Africa
	250	Tinang (UN), Philippines
	10	R. Tupí, Brazil
15160	250	Wofferton (VOA), Gt. Britain
	20/250	R. Budapest, Hungary
		AS, USSR
	100	Algiers, Algeria
	35/100	Tangier (VOA), Morocco
	30	FEBA, Seychelles
	100	AIR Delhi, India
	10	Lyndhurst, Australia
	250	Greenville (VOA), USA
	250	Bethany (VOA), USA
	100	Family Radio, USA
	10	La Voz de la América Latina,
		México
15165	50	Herstedvester, Denmark
		EU, USSR
	100	Vatican Radio, Vatican
	300	R. Nederland, Malagasy Republic
	100	AIR Delhi, India
	20/300	Tel Aviv, Israel
	50	Damascus, Syria
	250	Greenville (VOA), USA
	100	R. St. HCJB, Ecuador
15167r	5	Ceará R. Clube, Brazil
15170		RFE/RL
	100	R. Berlin Int., GDR
		EU/AS, USSR
	20	Papeete, Tahiti

kHz	kW	Stations and Countries
15170	250	Greenville (UN), USA
15175	100/250	Fredrikstad, Norway
		AS, USSR
	100	Cairo, Egypt
	10	La Voz de la América Latina,
		México
15180	250	BBC (D/S), Gt. Britain
		EU/FE, USSR
	300	R. Nederland, Malagasy Republic
	100	Dacca, Bangladesh
	100	AIR Delhi, India
	50	Greenville (VOA/UN), USA
15185	500	Wertachtal (DW), Germany
	100	R. Nederland, Holland
		EU, USSR
	35	Colombo (VOA), Sri Lanka
	50	R. St. WINB, USA
	250	Deutsche Welle, Antigua
15190		EU/AS, USSR
	50	R. TV Congolaise, Congo
	100	Voice of the Gospel, Ethiopia
	250	AIR Aligarh, India
	100	Carnarvon, Australia
	50/250	Sackville (CBC), Canada
	300	R. Nederland, Bonaire
	5	R. Inconfidência, Brazil
15195	250	Wofferton (VOA), Gt. Britain
	100	R. Nederland, Holland
	250	Ascension Island (VOA)
	100	Tangier (VOA), Morocco
	100	Kabul, Afghanistan
	100	R. Japan, Japan
15200	100	Issoudum, France
		EU, USSR
	100	Vatican Radio, Vatican
	20/300	Tel Aviv, Israel
15205	250	Kavala (VOA), Greece
		EU, USSR
	100	Tangier (VOA), Morocco
	100	AIR Delhi, India
	250	Greenville (VOA), USA
	100	AIR Delhi, India
	250	Greenville (VOA), USA
	250	Delano (VOA), USA
15210	100	Wavre, Belgium
	100	Issoudum, France
		EU/AS/FE, USSR
15215		RFE/RL
	50/100	Family Radio, USA
	2.5	R. Timbira, Brazil
15220	100	R. Nederland, Holland
	20	R. Budapest, Hungary
		EU/AS, USSR
	300	R. Nederland, Malagasy Republic
	250	RSA, South Africa
	250	Tinang (VOA), Philippines
	300	R. Nederland, Bonaire
15225	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
	50	Sfax, Tunisia
	25/100	Taipei (VOFC), Taiwan
	25	La Voz de Melo, Uruguay
15230	100	Rome, Italy
		EU, USSR
		R. Peking, China
	20/300	Tel Aviv, Israel
	10	Melbourne, Australia
	100	R. Habana, Cuba
15235	100	Voice of the Gospel, Ethiopia
	250	Monrovia (VOA/UN), Liberia
	50/100	AIR Delhi, India
	100	R. Japan, Japan
	50	FEBC, Philippines
	250/500	Greenville (VOA), USA
15240	500	R. Berlin Int., GDR
		EU/AS/FE, USSR
	100	R. Belgrade, Yugoslavia
	250	Monrovia (VOA/UN), Liberia
	50/300	Tel Aviv, Israel
	10	Lyndhurst, Australia
15245	500	Wertachtal (DW), Germany

kHz	kW	Stations and Countries
15245	100	Jülich (DW), Germany
	250	Sines, Portugal
		EU, USSR
	100	Voice of the Gospel, Ethiopia
	100	Kinshasa, Zaire
	250	R. Nacional Brasilia, Brazil
15250	120	R. Bucharest, Rumania
	100	Voice of the Gospel, Ethiopia
	250	Tinang (VOA/UN), Philippines
	250	Greenville (VOA), USA
	250	Delano (VOA), USA
15255		RFE/RL
	100	R. Berlin Int., GDR
		EU/AS/FE, USSR
	50	Trans World Radio, Bonaire
15260	15/250	Pori, Finland
	100	Allouis (UN), France
		EU/AS, USSR
	250	BBC, Ascension Island
	100	Voice of the Gospel, Ethiopia
	250	Monrovia (VOA), Liberia
	20/300	Tel Aviv, Israel
	1	Tokyo (FEN), Japan
	250	Greenville (VOA), USA
15265	15/250	Pori, Finland
	500	Issoudum, France
		AS, USSR
	50	R. Excelsior, Brazil
15270	15/250	Pori, Finland
	250	Wofferton (BBC), Gt. Britain
	100	Tangier (VOA), Morocco
	30	FEBA, Seychelles
	100	Dacca, Bangladesh
		R. Peking, China
	100	R. Japan, Japan
	25/100	Taipei (VOFC), Taiwan
	250	Dixon (VOA), USA
	0.8	SODRE, Uruguay
15275	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	100	Warsaw, Poland
		EU, USSR
	250	Trans World Radio, Bonaire
15280		EU, USSR
	100	Voice of the Gospel, Ethiopia
	100	AIR Delhi, India
	20/300	Tel Aviv, Israel
	250	BBC Tebrau, Malaysia
	50	R. Veritas, Philippines
		BCC, Taiwan
	250	Greenville (VOA), USA
	50	KGEI Belmont, USA
15285	100	R. Berlin Int., GDR
	20	R. Budapest, Hungary
	250	Ejura, Ghana
	100	Tema, Ghana
	100	AIR Delhi, India
15290		RFE/RL
	250	Tinang (VOA), Philippines
	100	Kota Kinabalu, Sabah
	20	Damascus, Syria
	100	Shepparton, Australia
	50/250	Sackville (CBC), Canada
	10	R. El Mundo, Argentina
15295		EU, USSR
	100	Maputo, Mozambique
15300	500	Issoudum, France
	35/100	Tangier (VOA), Morocco
	100	R. Japan, Japan
	50	FEBC, Philippines
	250	Greenville (VOA/UN), USA
15305	100	Vienna, Austria
	350	Hörby, Sweden
	150/500	SBC, Switzerland
		EU/AS, USSR
	35/100	Tangier (VOA), Morocco
	20/300	Tel Aviv, Israel
	50	R. St. WINB, USA
15310		EU, USSR
	100	Tangier (VOA), Morocco
	50	AIR Delhi, India

kHz	kW	Stations and Countries
15310	20/300	Tel Aviv, Israel
	100/200	R. Japan, Japan
	100	BBC Tebrau, Malaysia
	100	R. St. HCJB, Ecuador
15315	100/500	Issoudum, France
	250	Monrovia (VOA), Liberia
	100	Tehran, Iran
15320	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
		EU, USSR
	100	Voice of the Gospel, Ethiopia
		BCC, Taiwan
	50	Shepparton, Australia
	50	Trans World Radio, Bonaire
15325	100	R. Nederland, Holland
	50	FEBA, Seychelles
	250	Soroti, Uganda
	100	R. Japan, Japan
	250	Islamabad, Pakistan
	50	Karachi, Pakistan
	250	Sackville (CBC), Canada
	5	R. Gazeta, Brazil
15330	100	Rome, Italy
		EU/AS, USSR
	100	Tangier (RTM), Morocco
	30	FEBA, Seychelles
	20	Tel Aviv, Israel
	175	Bethany (AFRTS), USA
	100	Dixon (AFRTS), USA
15335	100	Vienna, Austria
	100	AIR Delhi, India
	100	AIR Madras, India
	20/300	Tel Aviv, Israel
	25	R. Nacional, Colombia
15340		RFE/RL
	100	R. Dif. Portuguesa, Portugal
	120	Bucharest, Rumania
	50	R. Habana, Cuba
15345	100	Vienna, Austria
	100	Athens, Greece
	100	Fredrikstad, Norway
	120	Bucharest, Rumania
	250	R. Kuwait, Kuwait
	250	Tinang (VOA), Philippines
	25/100	Taipei (VOFC), Taiwan
	50/250	Trans World Radio, Bonaire
	50	R. Nacional, Argentina
15350	6	R. Luxembourg, Luxembourg
		EU/AS/FE, USSR
	100	Voice of the Gospel, Ethiopia
	100	Kinshasa, Zaire
15355		RFE/RL
	100	Shepparton, Australia
	250	KGEI, Belmont, USA
	50	R. St. WINB, USA
	50/250	Trans World Radio, Bonaire
15360	500	Issoudum, France
		EU, USSR
	50	Tangier (RTM), Morocco
	50	AIR Delhi, India
15365	18/120	R. Bucharest, Rumania
	50	R. Nac. España, Canary Islands
	100	Voice of the Gospel, Ethiopia
	250	Sackville (BBC), Canada
	250	Dixon (VOA/UN), USA
	50/250	Delano (VOA), USA
15370		RFE/RL
	100	R. Nederland, Holland
		EU, USSR
	100	Taipei (VOFC), Taiwan
15375	100	R. Nederland, Holland
		EU/FE, USSR
	50	R. St. WINB, USA
	100	R. St. HCJB, Ecuador
15380		RFE/RL
	120	R. Bucharest, Rumania
15385	60/100	Rome, Italy
	120	R. Bucharest, Rumania
		EU/AS, USSR
		R. Peking, China
	10/50	R. México, Mexico

kHz	kW	Stations and Countries
15390	100/250	BBC (S/R/D), Gt. Britain
	18/120	Bucharest, Rumania
	350	Hörby, Sweden
	30	Hörby (SSB), Sweden
	50	FEBC, Philippines
	30	R. Nacional, Venezuela
15395	120/200	Prague, Czechoslovakia
		AS, USSR
	250	Greenville (VOA), USA
15400	50/500	Tirana, Albania
	100	Rome, Italy
		EU, USSR
	250	BBC, Ascension Island
	100	Voice of the Gospel, Ethiopia
	250	Monrovia (VOA), Liberia
	100	Dacca, Bangladesh
	100	Baghdad, Iraq
15405	50/500	R. Tirana, Albania
		EU, USSR
	75	Tel Aviv, Israel
	35/250	VOA, Philippines
	50/350	Riyadh, Saudi Arabia
15410	100	Vienna, Austria
	100	Allouis, France
	350	Karlsborg, Sweden
		EU, USSR
	250	Kigali (DW), Rwanda
	20	R. Japan, Japan
	100	Poro (VOA), Philippines
	250	Carnarvon, Australia
	250	Greenville (VOA/UN), USA
15415	20	R. Budapest, Hungary
		EU/AS/FE, USSR
	100	Tanger (RTM), Morocco
	20	Tel Aviv, Israel
	250	R. Kuwait, Kuwait
	250	Greenville (UN), USA
	50	Trans World Radio, Bonaire
	1	R. Cl. Ribeirão, Brazil
15420	20/100	BBC Limassol, Cyprus
	100	Algiers, Algeria
15425	500	Issoudum, France
		EU/AS, USSR
	20/300	Tel Aviv, Israel
	100	Colombo, Sri Lanka
	25/100	Taipei (VOFC), Taiwan
	50	Perth, Australia
	300	R. Nederland, Bonaire
15430	100	Munich (VOA), Germany
	100/500	Schwarz/Sottens, Switzerland
	50	AIR Delhi, India
	100	R. Japan, Japan
	50/250	Greenville (AFRTS), USA
15435	100	Vienna, Austria
	250	BBC (S), Gt. Britain
		AS, USSR
	50	Dar es Salaam, Tanzania
	20/300	Tel Aviv, Israel
	100	BBC Tebrau, Malaysia
15440	100	Allouis, France
	350	Noblejas (RNE), Spain
		EU, USSR
	50	FEBC, Philippines
	50/100	Family Radio, USA
15445		RFE/RL
		AS, USSR
	250	Monrovia (VOA), Liberia
15447	10	R. Nacional, Brasilia, Brazil
		15450-17700kHz
15450		EU, USSR
15455		EU/FE, USSR
15460		EU/AS, USSR
	20/300	Tel Aviv, Israel
15470		EU, USSR
15475	100	Cairo, Egypt
15480		EU, USSR
		R. Peking, China
15485	20/300	Tel Aviv, Israel
15490		EU, USSR
	20/300	Tel Aviv, Israel

kHz	kW	Stations and Countries
15505		EU/AS, USSR
15512	20/300	Tel Aviv, Israel
15520	100/250	Islamabad, Pakistan
15545	20/300	Tel Aviv, Israel
15550		R. Peking, China
15590		R. Peking, China
15630	120/240	Pyongyang, Korea (DR)
15650	120/240	Pyongyang, Korea (DR)
15710		R. Peking, China
15880		R. Peking, China
16105	20	Peking (CPA), China
16270	20	Peking (CPA), China
17387	10/100	AIR Delhi, India
17505	20	Peking (CPA), China
17530		R. Peking, China
17605		R. Peking, China
17625	100	Cairo, Egypt
17630	20/300	Tel Aviv, Israel
17650		R. Peking, China
17665	250	Islamabad, Pakistan
17670	100	Cairo, Egypt
17680		R. Peking, China
17685	20/300	Tel Aviv, Israel
17695	100/250	BBC (D/S/R), Gt. Britain
		17700-17900kHz (16 metre band)
17700	5/500	R. Berlin Int., GDR
	100	R. Nederland, Holland
		EU/AS, USSR
17705	100	BBC (D), Gt. Britain
		FE, USSR
	100	Tangier (VOA), Morocco
	250	AIR Aligarh, India
	100	AIR Delhi, India
	50	R. Habana, Cuba
17710	15	R. Budapest, Hungary
		EU, USSR
	250	Bethany (VOA), USA
17715	100	Jülich (DW), Germany
	15	R. Budapest, Hungary
17720	500	Issoudum, France
		EU/FE, USSR
17720	50	Taipei (VOFC), Taiwan
17725		RFE/RL
	100	R. Japan, Japan
17730	18/120	Bucharest, Rumania
		EU, USSR
	350	Tehran, Iran
	250	Greenville (VOA/UN), USA
	50	Family Radio, USA
	50	R. St. HCJB, Ecuador
17735		RFE/RL
		R. Peking, China
	20/100	AIR Delhi, India
17740	250	Wavre, Belgium
	100	R. Berlin Int., GDR
	50/250	Sackville (CBC), Canada
	250	Bethany (VOA/UN), USA
17745		EU/AS, USSR
	100	Cairo, Egypt
	250	Greenville (UN), USA
17750		RFE/RL
	100	Islamabad, Pakistan
	50	Karachi, Pakistan
	250	Tinang (UN), Philippines
	50/250	Dixon (VOA), USA
	250	Delano (VOA), USA
	50	R. Habana, Cuba
17755	100	Allouis, France
	100	R. Berlin Int., GDR
	100	Rome, Italy
		EU, USSR
	100	Cairo, Egypt
17760		RFE/RL
17765	100	Vienna, Austria
	500	Wertachtal (DW), Germany
		EU, USSR
	250	Kigali (DW), Rwanda
	50/350	Riyadh, Saudi Arabia
	100	Dixon (AFRTS), USA
17770	100	Vienna, Austria

kHz	kW	Stations and Countries
17770	250	Wavre, Belgium
		RFE/RL
	350	Hörby, Sweden
	30	Hörby (SSB), Sweden
	250	Baghdad, Iraq
17775	100	Issoudum, France
	100	R. Nederland, Holland
	30	Hörby (SSB), Sweden
		AS, USSR
	50/350	Riyadh, Saudi Arabia
17780	100	Allouis, France
	100	Jülich (DW), Germany
	350	Hörby, Sweden
		EU, USSR
	300	R. Nederland, Malagasy
	250	RSA, South Africa
	250	AIR Aligarh, India
	50	Ulan Bator, Mongolia
	50/250	Delano (VOA), USA
17785	500	Issoudum, France
	20/250	R. Budapest, Hungary
		EU/AS, USSR
	100	Cairo, Egypt
	20/300	Tel Aviv, Israel
	500	Greenville (VOA), USA
17790	100	BBC (D), Gt. Britain
	100	Algiers, Algeria
	250	Tinang (VOA), Philippines
17795	100	Allouis, France
	60/100	R. Rome, Italy
		EU, USSR
	250	Monrovia (VOA), Liberia
		R. Peking, China
	50	Shepparton, Australia
17800	100	Issoudum, France
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	100	Fredrikstad, Norway
		EU, USSR
	500	Sabrata, Libya
	50	Karachi, Pakistan
	25/100	Taipei (VOFC), Taiwan
	250	Bethany (VOA), USA
	50	Greenville (VOA), USA
17805		RFE/RL
		EU/FE, USSR
17810	500	Issoudum, France
	250	BBC (R), Gt. Britain
	100	R. Nederland, Holland
	250	Monrovia (VOA/UN), Liberia
	300	R. Nederland, Malagasy Republic
	50	FEBC, Philippines
	300	R. Nederland, Bonaire
17815	250	Wavre, Belgium
	60	Rome, Italy
	18	R. Bucharest, Rumania
		AS/FE, USSR
		R. Peking, China
	300	Tel Aviv, Israel
	1	R. Cult. de São Paulo, Brazil
17820		EU/AS, USSR
	50/250	Sackville (CBC), Canada
	200	Dixon (VOA), USA
	50/250	Delano (VOA), USA
17825	50	R. Sofia, Bulgaria
	500	Wertachtal (DW), Germany
	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
		EU/AS, USSR
	25/100	Vatican Radio, Vatican
	100	Algiers, Algeria
	250	Kigali (DW), Rwanda
	200	R. Japan, Japan
17830	100	Athens, Greece
	150	Schwarzenburg, Switzerland
	250	Ascension Island (VOA)
	250	Islamabad, Pakistan
	300	R. Nederland, Bonaire
17835		RFE/RL
	30	Hörby (SSB), Sweden
		EU/AS, USSR

kHz	kW	Stations and Countries
17840	100	Vienna, Austria
	120	Prague, Czechoslovakia
	120	Bucharest, Rumania
		AS, USSR
	100	Vatican Radio, Vatican
	250	BBC, Ascension Island
	200	Delano (VOA), USA
17845	500	Wertachtal (DW), Germany
		RFE/RL
		EU, USSR
	50/100	Family Radio, USA
17850	100	Vienna, Austria
	500	Issoudum, France
	18/120	Bucharest, Rumania
		EU/AS, USSR
	35	Colombo, Sri Lanka
	250	Delano (VOA), USA
17855	250	Wofferton (BBC), Gt. Britain
	250	Monrovia (VOA), Liberia
	300	R. Nederland, Malagasy
	50/350	Riyadh, Saudi Arabia
	250	Greenville (VOA), USA
17860	100	Issoudum, France
		EU, USSR
	50/250	Monrovia (VOA), Liberia
	250	AIR Aligarh, India
		Ulan Bator, Mongolia
	250	Tinang (UN), Philippines
	100	Shepparton, Australia
	250	Greenville (UN), USA
17865	100	Issoudum, France
		RFE/RL
	50/100	Family Radio, USA
17870	250	BBC (W), Gt. Britain
		EU/AS, USSR
	250	Monrovia (VOA), Liberia
17875	100	Jülich (DW), Germany
	500	Wertachtal (DW), Germany
		EU, USSR
	50/100	Family Radio, USA
	50	R. St. WINB, USA
17880	100	R. Berlin Int., GDR
	100	R. Dif. Portuguesa, Portugal
		EU/AS, USSR
	100	R. Japan, Japan
	100	BBC Tebrau, Malaysia
17885	20/100	BBC Limassol, Cyprus
		EU, USSR
	100	R. Habana, Cuba
17890		EU/AS, USSR
	100	Dacca, Bangladesh
	50	Taipei (VOFC), Taiwan
	175	Bethany (VOA), USA
17895		RFE/RL
	100	R. Dif. Portuguesa, Portugal
	50	Lusaka, Zambia
	250	Dixon (VOA), USA
	50/250	Delano (VOA), USA
17900		EU, USSR
	100	Vatican Radio, Vatican

17910–21450kHz

kHz	kW	Stations and Countries
17920	100	Cairo, Egypt
18080	100/250	BBC, Gt. Britain

21450–21750kHz (13 metre band)

kHz	kW	Stations and Countries
21450		EU, USSR
21460	250	Wavre, Belgium
		AS, USSR
21465	100	Cairo, Egypt
21470	100	BBC (D), Gt. Britain
21480	300	R. Nederland, Malagasy Republic
21485	100	Vatican Radio, Vatican
	250	Greenville (VOA), USA
	250	Bethany (VOA), USA
21490		EU, USSR
21495	100	R. Dif. Portuguesa, Portugal
21500	500	Wertachtal (DW), Germany
	250	Greenville (VOA), USA
21505		EU/AS, USSR

NOTICE TO EXPERIENCED DX-ERS!

No doubt that many times you have felt that special thrill when listening to small home service stations in the tropics, such as R. Andina in Peru playing typical Andean music; Radiodiffusion Nationale Tchadienne in N'djamena heard daily with African rhythms with excellent reception, or beautiful instrumental music of the island of Celebes broadcast from RRI Ujung Pandang. Their newscasts are often of a very local nature, and you are able to follow on close hand national emergencies, such as earthquakes or coup d'etats.

Even though these broadcasts are intended for the local audience only, the radiowaves during the hours of darkness often travel thousands of kilometres and this means a real DX challenge to you. Most of these stations are heard in the 60 and 90 metrebands during their morning or evening broadcasts.

As a supplement to the frequency list in the World Radio TV Handbook, the Danish Shortwave Clubs International each year publish a guide which lists all active broadcasting stations in the frequency range 2000-5900kHz, their transmission times and an indication on how often they can be heard outside their local service area. It is called the

TROPICAL BANDS SURVEY

The present 4th edition is a 34 page booklet, based upon the WRTH and updated by DX-ers and monitors in more than 28 countries in 6 continents. Thus it has become the most comprehensive guide to tropical band DX-ing in the world.

YOU need the TBS when you DX in the tropical bands! You can get the TBS by sending 5 IRC's (8 IRC's airmail delivery) to:

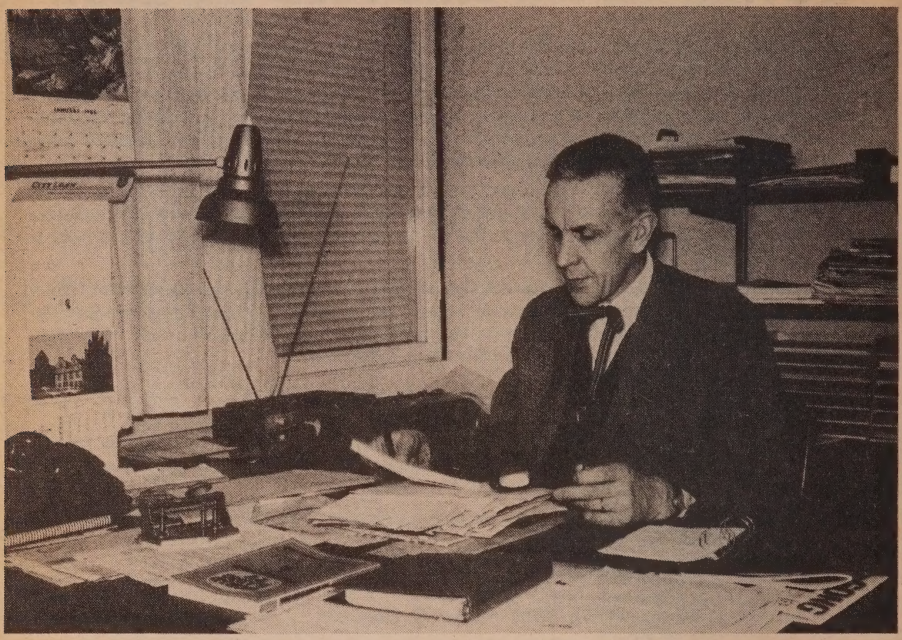
The Secretary, DSWCI, Per Sorensen,
Tage Hansensgade 7, 2 mf,
DK-8000 Aarhus C, Denmark

kHz	kW	Stations and Countries
21510	100	Rome, Italy
		EU, USSR
21515		EU, USSR
	2	FEBC, Philippines
	250	Greenville (UN), USA
21520	100/500	Schwarz/Sottens, Switzerland
21525	20	R. Budapest, Hungary
	50/350	Riyadh, Saudi Arabia
21530		EU, USSR
	50/350	Riyadh, Saudi Arabia
21535	250	RSA, South Africa
21540	100	R. Berlin Int., GDR
	250	Kigali (DW), Rwanda
21545	100	Tema, Ghana
21550	100	BBC (D), Gt. Britain
21560	100	Jülich (DW), Germany
	100	Rome, Italy
21565	100	Algiers, Algeria
21570	100	R. Nederland, Holland
21580	500	Issoudum, France
21585	100	Schwarzenburg, Switzerland
21590	100/250	BBC, Gt. Britain
		EU, USSR
	20/300	Tel Aviv, Israel
	250	Islamabad, Pakistan
	50	Karachi, Pakistan
	350	Riyadh, Saudi Arabia
21600	100	Jülich (DW), Germany
		EU, USSR
21610	100	BBC (D), Gt. Britain
	50	Monrovia (VOA), Liberia
	200	Delano (VOA), USA
21615		EU, USSR
21620	100	Issoudum, France
21625	100	Tel Aviv, Israel
		AS, USSR
21635		EU, USSR
21640	100	BBC (D), Gt. Britain
	100	R. Nederland, Holland
	300	R. Nederland, Bonaire
21645		EU, USSR
21650	100	Jülich (DW), Germany
	250	Cyclops (DW), Malta
21655	100	Fredrikstad, Norway
21660	100	BBC Limassol, Cyprus
	100	AIR Delhi, India
21665		RFE/RL
21670	50	Greenville (VOA/UN), USA
21675	500	Issoudum, France
21680		EU, USSR
21685	300	R. Nederland, Malagasy
	100	Dacca, Bangladesh
21690	100	Wavre, Belgium
	100	Rome, Italy
	350	Hörby, Sweden
21695	100	Rome, Italy
21700	120	Prague, Czechoslovakia
	100	R. Dif. Portuguesa, Portugal
21705		EU, USSR
21710	50/250	BBC (R), Gt. Britain
21720		RFE/RL
	250	Ejura, Ghana
21730	100	Issoudum, France
21735	100	R. Dif. Portuguesa, Portugal
21740	50	Greenville (VOA), USA
21745		RFE/RL
		EU/AS, USSR

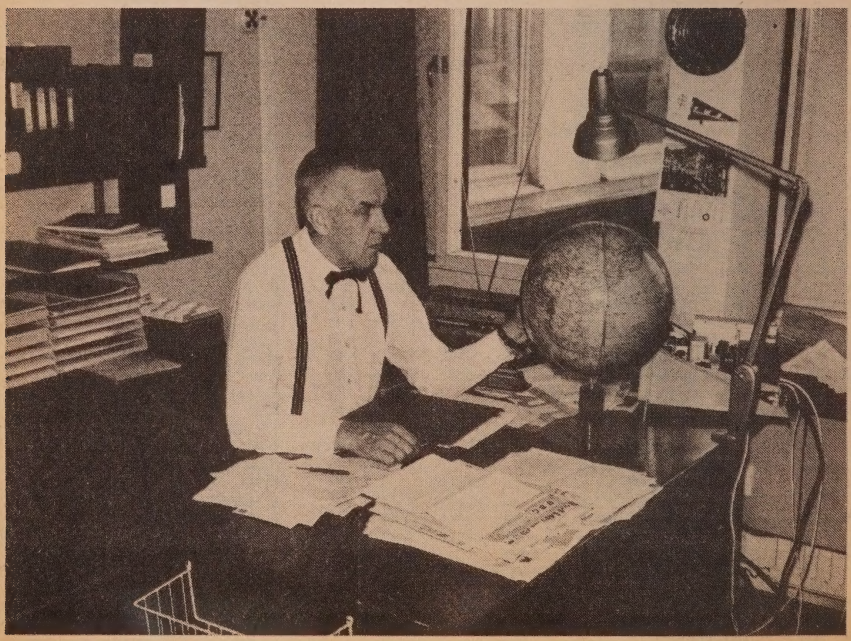
25605-26095kHz(11 metre band)

25605	20/300	Tel Aviv, Israel

ARNE SKOOG OF RADIO SWEDEN

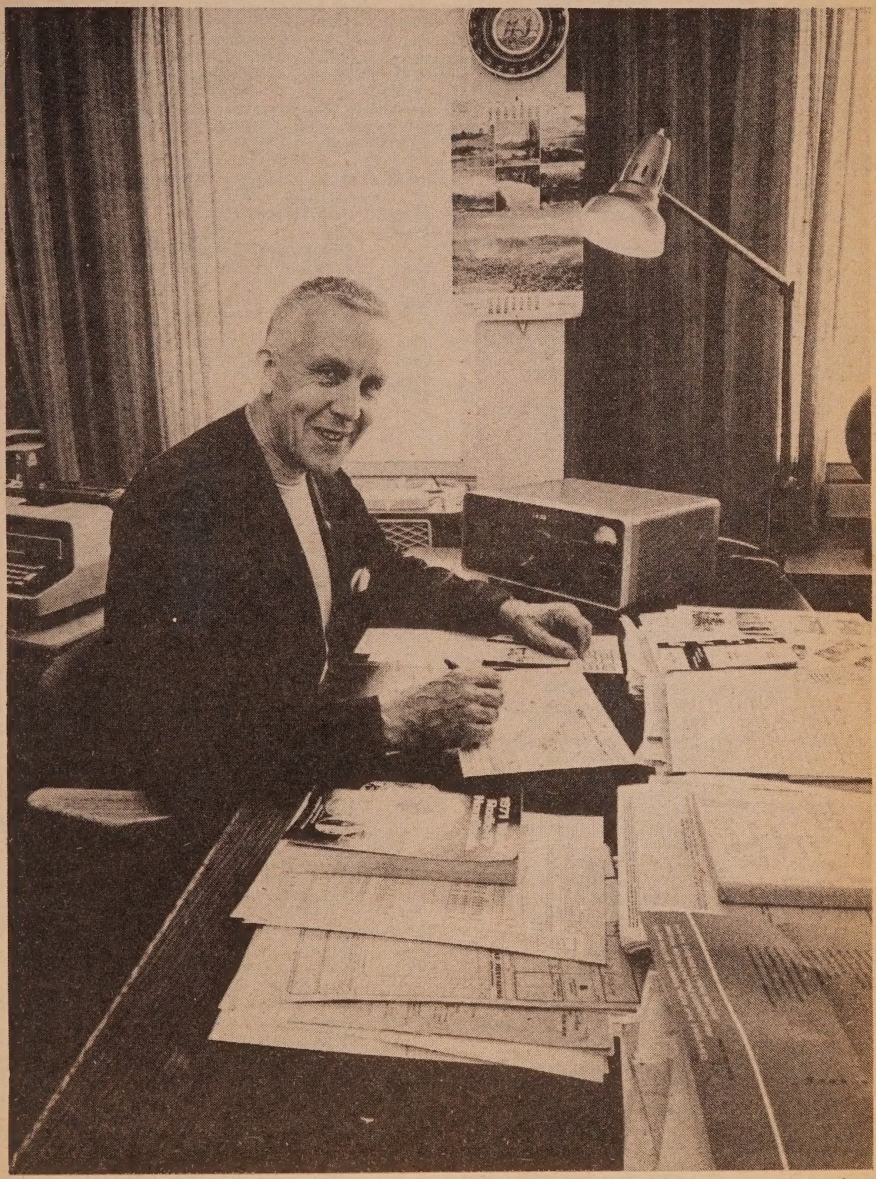


Preparing a DX-programme.



Struggling with the problems of the world.

HE DX-ERS "GRAND OLD MAN"



The problems have been solved and another edition of "Sweden Calling DX-ers" is ready to go on the air.

BROADCASTS IN ENGLISH

prepared by Erik Køie, Copenhagen, Denmark.

Abbreviations: ¶=Nov-Feb frequency; +=March/April frequency; *=May-August frequency; °=Subtract one hour for summer-time(Europe section); a=Sun; b=Mon; c=Tues; d=Wed; e=Thurs; f=Fri; g=Sat; h=Sun/Fri; i=Thurs/Fri; j=Mon/Wed; k=Sat/Sun; m=Tues/Fri; m=meters; mb=meter band; n=Sat/Sun/Mon; q=Mon-Fri; r=Tues-Sat; s=meetings of the Security Council when in session; t=Sun/Mon; v=Thurs/Sat; w=alterrnative Mons, x=Wed/Sat;y=Tues-Sun; z=Mon-Thurs. – A=Ascension Isl; An=Antigua; B=Bonaire; Be=Berlin; Bo=Bombay; By=Bethany; C=Cyprus; Cr=Crowborough; D=Delano; Da=Daventry; Di=Dixon; E=Masirah Isl; G=Greenville; H=Hörby; K=Kigali; Ka=Karlsborg; L=Lopik; LV=La Voz; M=Madagascar; Ma=Malta; Mo=Monrovia; P=Philippines; S=Sackville; SSB=Single Side Band; Ta=Tangier; Ti=Tirana; Vo=Voice of; W=not Sundays; USB=Upper side band(A3J mode).

TO EUROPE		kHz
0000	BBC	1088,5975,7130,9410
	R. Japan	9585
	R. Luxembourg	1439,6090,97MHz
	b R. Norway	1578
	s UN R.	6055(G)
0030	BBC	1088
0100	R. Japan	9585
0200	R. Japan	9585
	b R. Norway	1578
0300	BBC	647,1088,3952.5,6050,7185
	R. Japan	9585
	VoA	3980,5955,6060,7200
0330	BBC	1088,6050,7185
0400	BBC	200,647,1088,1295,6050, 6180(C),7185,7210(C), 9410
	R. Japan	9585
	b R. Norway	1578
	VoA	791,3980,5955,6060,7200
0415	RAI, Italy	6075,7275
0430	BBC	647,1088,6050,6180(C), 7185,9410
0445	BBC	647,6050,6180(C),7185,9410
0500	BBC	647,3970,5975,6050,6180(C), 7185,9410,15420(C)
	Israel	§:5900,7395,7412.5,9009,9815. +:7395,7412.5,9009,9815,12025. *:7412.5,9009,9815,12025
	R. Japan	9585
	R. Pyongyang	3560(SSB),9420,9977
	VoA	791,3980,5955,6060,7200, 9670
0530	BBC	3970,5975,6050,6180(C),7185, 9410,15420(C)
	BBC, Engl. by R.	647,3952.5,6140,7120,7260(C), 9750,90.2MHz(Be)
0545	BBC	647,1088,3952.5,3970,5975, 6050,6180(C),7120,7185,9410, 15420(C)
0600	BBC	647,809(Be),1088,3952.5,3970, 5975,6050,6180(C),6195,7120, 7185,7230,9410,9750(C), 15420(C),90.2MHz(Be)
	R. Japan	15310
	VoA	791,3980,5955,7200,7325, 9670
0630	R. Tirana	7065,9500
	BBC	647k,3952.5,3970,5975,6050, 6180(C),7120,7185,9410,9580, 9750(C),15420(C)
	Polish R.	49,41,31mb.
	r UN Radio	9630(Ta),17730(Ta)
0645	R. Prague	1286,6055,9505
	BBC, Engl. by R.	809(Be),1295,6150,7260, 9690(C),9825,90.2MHz(Be)
0700	R. Australia	9500,11740
	BBC	647k,809(Be),1088,1295, 3952.5,3970,5975,6050,6180(C), 6195,7120,7185,7230,9410, 9580,9750(C),12095,15070, 15420(C),90.2MHz(Be)
	R. Japan	15310
	a Adv. World R, Malta	9635
	Switzerland	3985,6165,9535
0700	Syria	7105
0715	HCJB, Ecuador	6130,9760
	a VoGreece	9710
0725°	TWR, Monaco	7105
0730	BBC	5975
	BBC, Engl. by R.	1088,1295,3952.5,6195,7230
0745	R. Prague	1286,6055,9505
	BBC	1088,1295,5975
0800	g R. Andorra	6230
	R. Japan	11960,15325,15310
0815	BBC	1088,5975
0830	Austrian R.	6155
0845	R. Prague	1286,6055,9505
0900	BBC	1088,5975,9410,9750,9760, 12095,15070,17790,21610, 21710
	R. Japan	15310
0900°	a TWR, Monaco	9525
	a Adv. World R, Sines, Portugal	9670
0930	R. Nederland	5955(L),6045(L),7240(L), 9660(L)
	k R. Finland	9550,11755,15270
0940	g TWR, Monaco(DX)	9640
0945	R. Prague	1286,6055,9505
1000	R. Japan	9585
	R. Jordan	7155
	Saudi Arabia	11855
	a R. RSA	11970,15125
	s UN Radio	15415(G)
1030°	z TWR, Monaco	9525
1045	R. Prague	1286,6055,9505
1100	R. Japan	9585
	R. Pakistan	15110,17665
	R. Sweden	9630(Ka)
	Switzerland	3985,6165,9535
1130	R. Afghanistan	15195
	BBC	1088W,5975W,9410,9750,9760, 12095,15070,17790
	a BBC, Engl. by R.	1088,3952.5,5975
	Seoul, Korea	7150,9600,9640,11860
	R. Moscow	31,25mb.
1145	R. Canada	9635(Da),11720
	R. Prague	1286,6055,9505
1200	BBC	1088W,3952.5,5975W,9410,9750, 9760,12095,15070,17790
	q R. Budapest	6150,7155,9585,11910, 15160,17785
	Israel	11655,12025,15100,15485
	R. Japan	9585
	a R. Norway	6015
	Polish R.	41,31mb
1215	VoGreece	9710
1230	Austrian R.	6155,9770,11790
	R. Bangladesh	11890,15270
	BBC, Engl. by R.	809(Be)W,6125,9520,9635, 11720,11780,11945,15390
	a WYFR, Scituate	15110,15130,17865
1300	BBC	809(Be),1088,3952.5,5975, 9410,9750,9760,12095,15070, 17790
	R. Japan	9585
	R. Bucharest	9690,11940,15250
1315	Switzerland	3985,6165,9535
1330	BBC	1088,3952.5,5975,9410,9750, 9760,12095,15070

kHz

1330 a BBC, Engl. by R. 809(Be)
AFRTS, New York 15430(G)
1400 a R. Canada 1295(Cr),6195(Da)
R. Nederland 5955(L),6045(L)
R. Japan 9585
a R. Norway 9605
s UN Radio 15410(G)
1430 R. Finland 6120
s UN Radio 15410(G),21670(G)
1445 Vatican R. 1529,6190,7250,9645,11740
1500 R. Japan 9585
R. Jordan 9560
g TWR, Monaco(DX) 7245
1515 BBC 1088,3952.5,5975,9410,9750, 12095,15070
m R. Budapest(DX) 6110,7200,7215,9585,11910, 15160
1530 R. Canada 7235(Da),9555
R. Prague 6055
Switzerland 3985,6165,9535
R. Belgrade 9620,11735,15240
1600 BBC 1088,1295,3952.5,5975,7120, 9410,9750,12095,15070
R. Japan 9585
Polish R. 49,41mb.
R. Sweden 6065(Ka),9665(H)
WYFR, Scituate 11805,15150,17845
1615 BBC 1295,5975,7120,9410,12095
1630 R. Tirana 7065,9480
R. Canada 15325,17820
R. Prague 5930,7345
1700 BBC 809(Be),1088,1295,3952.5, 3989(C),5975,6180(C),6195, 7120,9410,12095,90.2MHz(Be)
R. Japan 9585
R. Kuwait 9580,9555,11845
VoA 1196,3980,6040,7170,9760, 15205,17785
WINB, Red Lion, PA 15375
WYFR, Scituate 11805,15130,15150
1715 VoA 3980,6040,7170,9760,15205, 17785
1730 RBI, GDR 1511,6080,6115,7185,7260, 7300,9730
AFRTS, NY 15330(By),15430(G)
1745 BBC 3989(C),5975,6180(C),7120, 7185,9410
BBC, Engl. by R. 809(Be),1088,1295,3952.5, 6195,7110,7210,9770, 90.2MHz(Be)
All India R. 7225,9525,11620
1800 BBC 3952.5,3989(C),5975,6180(C), 7120,7185,9410,11815(A), 90.2MHz(Be)
R. Japan 9585
R. Pyongyang 3560(SSB),6338,9977
a R. Norway 11860
AFRTS, NY 11790(G),15330(By),15430(G)
WYFR, Scituate 11805,15130,17845
q UN Radio 11900(G),15150(Ta),15410(G)
Hanoi, Vietnam 10040,12035
1815 R. Bangladesh 11940,15180
BBC 3952.5,5975,6180(C),7120, 7185,9410,11815(A)
1830 R. Tirana 7065,9480
Austrian R. 6155
R. Canada 9620,11865
RBI, GDR 6080,6115,7185,7300,9730
BBC 5975,6180(C),7120,9410, 11815(A)
R. Nederland 6020(L)
R. Japan 7195,9605
Polish R. 49,41mb.
R. Portugal 6025,9740
R. Sweden 6065(Ka)
VoA 3980,6040,7170,9590,9760, 15205
WINB, Red Lion 15355
R. Belgrade 6100,7240,9620
1840 W Deutschlandfunk 1268
1845 R. Luxembourg 1439
1900 R. Prague 5930,7245,7345
R. Finland 9550,11755
BBC, Engl. by R. 5990(C)
R. Japan 9585
Saudi Arabia 11855
Sri Lanka BC 7190,9720,11800
VOFC, Taiwan 9510,9685,11825,11860, 15225,17720,17890
s UN Radio 11900(G)
VoA 791,3980,6040,7170,9590, 9760,15205
R. Moscow 49,41mb.
1920 VoGreece 6140,7215,9760
1930 R. Sofia 6070,9700
R. Canada 9635,11865
R. Baghdad 9758
R. Bucharest 6150,7195
R. Kiev 5920,6020,7360
1935 RAI, Italy 6010,7275,7290
1945 R. Grenada 15105
All India R. 7225,9525,9912,11620
2000 R. Prague 5930,7345
R. Finland 6120,9555
BBC 809(Be),1088,3952.5,3970, 3989(C),5975,6180(C),6195, 7120,7185,9410,11815(A), 90.2MHz(Be)
R. Nederland 11730(M)
R. Iran 9022
Israel §:5900,7412.5, +:7412.5,9815. *:9815,11645
R. Japan 9585
R. Pyongyang 3890(SSB),6575,9420
Seoul, Korea 7150,9600,9640,11860
a R. Norway 6130,9645,11935
WINB, Red Lion 11775
R. Moscow 49,41mb.
R. Belgrade 6100,7240,9620
2010 R. Habana Cuba 17885
2030 R. Tirana 7065,9480
R. Peking 5090,6590,6860,7590,9030, 9880
R. Ghana 9545,15285
BBC 3989(C),5975,6180(C),7120, 7185,9410
n IBRA R, Malta 6170
Polish R. 49,41mb
v IBRA, Sines 9670
VoSpain 6100,9505
Syria 9545
Vatican R. 1529,6190,7250,9645
2045 g R. Mediterran, Malta 6170(or 6080)
i IBRA, Malta 6170(or 6080)
h IBRA, Sines 9670
2100 R. Nac. Brasília 11780(or 9605,15245)
BBC 3989(C),5975,6180(C),7120, 7185,9410
R. Japan 9585
R. Pakistan 6115,7085
R. Bucharest 5990,7225
R. RSA 5980+,7270,9585,11800+, 11900
R. Sweden 6065(Ka)
Switzerland 3985,6165,9535
VoA 791,1295(Cr),3980,6040, 7170,9590,9760,15205
WYFR, Scituate 11805
R. Moscow 201,49,41,31+ mb
2115 BBC, Engl. by R. 720(C),6070(C),7140(C)
BBC 1088,5975,6180(C),7120, 7185,9410
RBI, GDR 1511,7260
2130 R. Sofia 9700
R. Peking 5090,6590,6860,9030,9840
R. Prague 1286,6055
R. Budapest 5965,7150,7200,9655, 11910,15415
TWR, Monaco 1466
2200 R. Tirana 1394,7065,9480

TO EUROPE		kHz
2200	BBC	1088,3952.5,3970,5975,6180(C), 7120,7185,9410,90.2MHz(Be)
	R. Japan	9585
	VoTurkey	9515,11880
	WYFR, Scituate	11885
	R. Moscow	227,201,49,41,31+ mb
	R. Belgrade	6100,7240,9620
2230	BBC, Engl. by R.	1295
	Israel	§:5900,7412,9435,9815. +/*:7412,9009,9435,9815
	Polish R.	200,75,49,41mb
	R. Bucharest	755
2230	R. Canada	5925,9445
2245	BBC	1088,1295,3952.5,3970,5975, 6180(C),7120,7130,7185, 9410,90.2MHz(Be)
2300	q RAE, Argentina	11710
	R. Prague	1286
	R. Japan	9585
	TWR, Monaco	1466
	R. Sweden	1178(H)
2315	BBC	1088,5975,7130,7185,9410
2330	BBC	1088,5975,7130,9410

TO AFRICA		kHz
0000	BBC	5975,7130,9410
	s UN Radio	11760(G)
0300	BBC	3952.5,5975,7105(A),7185, 9580(A)
	R. RSA	3995,5980,7270,9585
	VoA	3990,5995,6035,7195,7280, 9530,9670,9740
0330	BBC, Afr. Sce	6005(A),7105(A),9580(A)
	BBC	5975,7185
	FEBA, Seychelles	9605,9765,11785
	R. Tanzania	1025,6105
0345	R. Moscow	49,31,25mb.
0400	R. Australia	11845,15290
	ETLF, Ethiopia	7210
	BBC	5975,6005(A),7105(A),7185, 9410,9580(A),11750(C)
	VoA	3990,5995,6035,7195,7280, 9670,9740,11925
0430	Deutsche Welle	6065,7225(K),9565(K),9765
	BBC	6005(A),7185,9410,9580(A)
	R. Pakistan	11885,15325,17830
	R. Tanzania	6105
0445	RBI, GDR	11700,11875
	R. Moscow	41,31,25,16+ mb
0500	W R. Cordac, Burundi	3973,4900
	BBC, Afr. Sce	6005(A),7105(A),7270(A), 9600(A)
	BBC	5975,7185,9410,9580,15420(C)
	TWR, Swaziland (DX)	4790,9590
	s UN Radio	9540(G)
	VoA	3990,5955,5995,6035,7195, 7200,7280,9670,9740,11925
0515	BBC, Afr. Sce	6005(A),7270(A)
0530	ETLF, Ethiopia	11800
	R. Nigeria	7275,11900
	R. Bucharest	9685,11840,15340
	VoA	3990,5955,5995,6035,7200, 7280,9670,9740,11925
0545	BBC	5975,6005(A),7185,9410, 9580,11750,15420(C)
	r UN Radio	6055(G),9530(G)
0550	a R. Zambia	7220,11880
0600	R. Australia	11845,15290
	Deutsche Welle	9615,9700,11765,11905, 15275
	BBC	5975,6005(A),6110,7105(A), 7185,9410,9580,9600(A), 11750,11860(A),15420(C), 17885(C)
	TWR, Swaziland	6070,11760
	VoA	3990,5955,5995,6035,6080, 6160k,7200,7280,7295,9530, 9555k,9670,9680,9740
0615	R. RSA	11900,11915,11925,15220, 51430,17780
0630	BBC, Afr. Sce	6005(A),6110,7210,11860(A)
	BBC	5975,7185,9410,9580,11750, 15420(C),17885(C)
	r UN Radio	6055(G),9530(G),9630(Ta), 17730(Ta)
0645	a ELWA, Monrovia	11950
0700	BBC	5975,6005(A),7185,9410, 9580(A),9600(A),11750, 11860(A),12095,15070, 15420(C),17885(C)
	R. Ghana	6130
	g ELWA, Monrovia	11950
0707	r UN Radio	6055(G),9540(G)
0730	R. Prague	21700
	BBC, Afr. Sce	9600(A),11860(A),15400(A)
	BBC	9410,12095
0800	BBC	9410,9600(A),11860(A),12095, 15070,15400(A)
0815	BBC	11860(A),15070,15400(A)
	a BBC, Afr. Sce	9600(A)
0830	R. Prague	21700
0900	k R. Prague	21700
	BBC	9600(A)a,11860(A),12095,15070, 15400(A),15420(C),17705, 17885(C),21470,21660(C)
	R. Tanzania	1025,9750
0915	BBC	11860(A)k,12095,15070, 15400(A)k,15420(A),17705, 17885(C),21470,21660(C)
0930	k R. Finland	15270
0945	ETLF, Ethiopia	7145,11770
1000	ETLF, Ethiopia	11770
	w BBC	21590(to Mauritius)
1030	BBC	11860(A),12095,15070, 15400(A),15420(C),17705, 17885(C),21470,21660(C), 21710
1045	Deutsche Welle	11785(K),15410(K),17765, 17875,21500,21600
1050	a R. Zambia	11880,17895
1100	R. RSA	11900,15220,21535
	R. Sweden	21690(H)
	Somalia	9585
	Switzerland	15140,15430,17830,21520
1115	W Vatican R.	17840,21485
1130	BBC	12095,15070,15400(A), 15420(C),17705,17885(C), 21470,21660(C)W,21710
1200	Deutsche Welle	15410(K),17765(K),17875, 21600
	s UN Radio	21670(G)
	W Vatican R.	17840,17900,21485
1230	R. Bangladesh	11890,15270
	Polish R.	31,25,19mb
	R. Sweden	21690(H)
	a WYFR, Scituate	15110,15130,17865
1245	BBC	12095,15070,15400(A), 15420(C),17705,17885(C), 21470,21710
1300	R. RSA	11900,15220,21535
1315	RBI, GDR	17755
1330	BBC	9410,12095,15070,15400(A), 15420(C),17705,17885(C), 21710
	AFRTS, NY	15430(G)
	R. Moscow	25,19,16,13mb-
1345	a ELWA, Monrovia	11945

TO AFRICA

		kHz
1400	R. Canada	15325,17820
	R. Ghana	21720
	a R. Norway	9605,21655
1430	s UN Radio	15410(G),21670(G)
	Peace & Progress	41§,31,25,19,16,13+ mb
1445	R. Ghana	15285
1500	BBC, Afr. Sce	15105(C),17695
	R. Moscow	41,31,25,19,16,13+ mb
1530	R. Tirana	9480,11985
	R. Prague	5930,7345,9605,11990,15110, 17840
	R. Nigeria	7275,15120
	Switzerland	9590,11870,15430
1550	W R. Zambia	6060,6165,9580
1600	R. Peking	3270,4020,6550,7620,8345, 9860
	R. Ghana	6130
	BBC	9410,11770(A),12095,15070, 15400(A),15420(C),17705, 17885(C),21710
	Malawi	3380,5995,7130
	R. RSA	7270,11900,21535
	R. Tanzania	1025,4785,9750,15435
	VoA	3990,6040,6045,7195,15410k, 15445,17710,17785,17870, 21485,21670k
	WYFR, Scituate	11805,15150,17845
1615	BBC, Afr. Sce	11740(A),11770(A),15400(A), 17705
	BBC	9410,12095,15070,15420(C)
1630	R. Japan	7250,9670
	Polish R.	41,31,25mb
	R. Moscow	41§,31,25,19,16+ mb
1645	R. Ghana	15285
	BBC	9410,11770(A),12095,15070, 15105(A),15400(A),15420(C)
	ETLF, Ethiopia	7240
1650	a R. Zambia	6060,6165,9580
1700	R. Peking	3270,4020,6550,7620,8345,9860
	ETLF, Ethiopia	6015,7240
	BBC, Afr. Sce	9540(C),9695(A),11770(A), 15400(A),15420(C)
	BBC	1412(E),5975,7120,9410, 11750,12095,15070,15105(A)
	R. France Int.	11705,11890,11930,15200, 15210,15300,15360,15425
	a R. Portugal	15340,17880
	g TWR, Swaziland (DX)	4790
	WINB, Red Lion	15375
	WYFR, Scituate	11805,15130,17845
	Vatican R.	11830,15120,17900
1715	Belgium	9745,11940
	R. Cairo	15255
	Deutsche Welle	7285(K),9735(K),11810,11850
1730	R. Tirana	7075,9500
	R. Prague	5930,7345,9605,11990,17840
	R. Bucharest	9540,11790,15365
	FEBA, Seychelles	9765
	AFRTS, NY	15330(By),15430(G)
1745	BBC	1412(E),5975,6180(C),7120, 7185,9410,11750,11815(A), 15070,15105(A)
	All India R.	9730,15080(Bo)
	c FEBA, Seychelles	9765
1800	R. Canada	15325,17820
	BBC	1412(E),5975,6005(A),6180(C), 7120,7185,9410,11750,11815(A), 15070,15105(A)
	RBI, GDR	15145,15170,15255
	R. Nigeria	7275,15120
	a R. Norway	11860
	W R. Portugal	15340,17880
	TWR, Swaziland	3200,4790,9590
	AFRTS, NY	11790(G),15330(By),15430(G)
	q UN Radio	11900(G),15150(Ta),15410(G)
	VoA	3990,6040,6045,7195,9760, 11760,11945,15205,15410k, 15445,17710,17785,17870, 21485
	WYFR, Scituate	11805,15130,17845
1810	ETLF, Ethiopia	9705
1815	R. Bangladesh	11940,15180
	VoGreece	11925,15345,17830
	R. Ghana	15285
	BBC	1412(E),5975,6005(A),6180(C), 7120,7185,9410,11750,11815(A), 15070
1830	Austrian R.	15335,17770
	ETLF, Ethiopia	7145
	BBC	1412(E),5975,6005(A),6180(C), 7120,7185,9410,11750,11815(A)
	R. Nederland	6020(M),11730(L),15375(L)
	R. Sweden	9720(H),11780(H)
	VoA	3990,6040,6045,7195,11760, 15410k,15445,17710,17870, 21485
	WINB, Red Lion	15355
	q UN Radio	11900(G),15140(Ta),15410(G), 18285(SSB – G)
	R. Moscow	49,41,31,25+ mb
	R. Belgrade	6100,7240,9620
1845	Ivory Coast	1241,11920
	e TWR, Swaziland	3240
1900	R. Algiers	251,1304,7245,9610,15420
	R. Canada	9685(Da),11830,15325,17820
	R. Finland	9550
	VOFC, Taiwan	9510,9685,11825,11860, 15225,17720,17890
	VoA	3990,6040,6045,7195,9515, 11760,15140,15445,17710, 17870,21485
	s UN Radio	15410(G)
1905	R. Sofia	11765,17825
1915	ELWA, Monrovia	11945
1930	R. Tirana	7075,9500
	R. Peking	5420,6550,7620,9470,11650
	Deutsche Welle	9765,11905
1945	ETLF, Ethiopia	11955
	All India R.	9755,11880
2000	R. Finland	6120,9550
	RBI, GDR	6140,11975
	R. Ghana	6130
	Israel	§/+:9009,9425,15540. *:9009
	a R. Norway	9645,11935
	Polish R.	41,31,25mb
	VoA	3990,6015,6040,6045,7195, 11760,15410k,15445,17710, 17870,21485
	WINB, Red Lion	11775
	R. Moscow	41,31,25+ mb
	R. Belgrade	6100,7240,9620
2015	R. Japan	7250,9700
	ELWA, Monrovia	11945
2030	R. Peking	5420,6550,7620,9470,11650
	R. Cairo	11790
	BBC	5975,6005(A),7120,7185, 9410,11750
2045	Vatican R.	9625,11700,15120
2100	R. RSA	5980+,7270,9585,11800§, 11900
	R. Sweden	11845(H)
	Switzerland	9535,9590,11720,11870
	VoA	3990,6015,6040,6045,7195, 15140,15410k,15445,17710, 17870,21485
	WYFR, Scituate	11805
2105	R. Sofia	9560,11765,17825
2115	BBC	5975,6005(A),7120,7185,9410
	Vatican R.	9625,11700,15120
2130	R. Moscow	321,194,49,41,31,25+ mb
2200	WYFR, Scituate	11885
	s UN Radio	15415(G)
	R. Belgrade	6100,7240,9620
2230	Israel	9435
	R. Moscow	321,194,49,41,31,25+ mb
2245	BBC	5975,7120,7130,7185,9410
2315	BBC	5975,7130,7185,9410
2330	BBC	5975,7130,9410

TO MIDDLE EAST		kHz
0300	BBC	638(C),720(C),1322(C),3952.5, 5975,6050,7140(C),9410, 9690(C)
	VoA	1259,7200,7270,9770
0315	BBC	638(C),1322(C),3952.5,5975, 6050,7140(C),9410,9690(C)
0330	BBC	1322(C),5975,6050,9410
0400	BBC	1322(C),5975,6050,9410, 9605(C)
	VoA	7200,7270,9770
0430	BBC	1322(C),6050,9410
0500	Israel	§:737,5900,7395,7412.5,9815 +:737,7395,7412.5,9009,9815 *:737,7412.5,9009,9815
	R. Pyongyang	3560(SSB),9420,9977
0530	R. Cairo	557
	R. Nigeria	11900
0545	BBC	638(C),720(C),1322(C),6050, 9410,11750
0600	BBC	638(C),720(C),1322(C),6050, 9410,11750,11760(C)
	b R. Norway	15175
	VoA	1259,7200,7270,9770
0615	f Syria	782,7105
0630	BBC	638(C),1322(C),9410,11750, 11760(C)
	r UN Radio	9630(Ta),17730(Ta)
0700	BBC	638(C),1322(C),9410,11750, 11760(C),15070
	Syria	872,1070,1313,7105
0730	BBC	1322(C),9410,11760(C),15070
0800	f R. Cairo	557
	R. Kuwait	1133,15345
0815	BBC	1322(C)a,11760(C)a,15070
0830	Austrian R.	15410
0900	BBC	638(C)a,1322(C),11760(C), 15070,15420(C),17790,21710
1000	R. Jordan	856,7155
	Saudi Arabia	11855
1100	BBC	638(C),1322(C),11760(C), 12095,15070,15420(C),17790, 21710
	R. Sweden	17770(USB – H)
1130	BBC	638(C)W,1322(C),11760(C), 12095,15070,15420(C),17790, 21710
1200	BBC	638(C)W,1322(C),11760(C), 12095,15070,15420(C)W, 17790,21710
	Israel	737
1215	BBC	1322(C),11760(C),12095, 15070,15420(C)W,17790, 21710
1230	R. Sweden	17770(USB – H)
1300	BBC	1322(C),9410,11760(C),12095, 15070,15310(T),15420(C)W, 21710
1315	BBC	1322(C),9410,11760(C),12095, 15070,15310(T),21710
1330	BBC	1322(C),9410,12095,15070, 15310(T)
1400	R. Afghanistan	4775
	a R. Norway	17800
	W R. Portugal	17895
1500	BBC	1322(C),9410,11750(T), 12095,15070,15310(T)
	R. Jordan	856,9560
1530	R. Nigeria	15120
	Switzerland	9590,11870,15430
1600	R. Cairo	1106
	W R. Portugal	17895
	R. RSA	7270,11900,21535
	R. Sweden	11735(H)
1615	BBC	1322(C),9410,11750(T),12095
1630	R. Pakistan	9460,11675
1645	BBC	1322(C),9410,12095
1700	R. Cairo	557
	BBC	1322(C),1412(E),3989(C),5975, 9410,12095
	VoA	7170,7290
1730	FEBA, Seychelles	9765
1745	BBC	1322(C),1412(E),3989(C),5975, 9410
	c FEBA, Seychelles	9765
1800	BBC	1322(C),1412(E),3952.5,3989(C), 5975,9410,11815(A)
	a R. Norway	11860
	R. Pyongyang	3560(SSB),6338,9977
	R. Nigeria	15120
	q UN Radio	11900(G),15150(Ta),15410(G)
1815	BBC	1322(C),1412(E),3952.5,5975, 9410,11815(A)
1830	Austrian R.	9690
	BBC	1322(C),1412(E),5975,9410, 11815(A)
1900	R. Finland	11755
	Saudi Arabia	1220,11855
	VoA	7170,7290,9760
2000	BBC	638(C),1322(C),1412(E),5952.5 3989(C),5975,9410,11815(A)
	R. Kuwait	1133,9555,11940
	VoA	7170,7290
2015	R. Japan	7250,9700
2025	RAI, Italy	6010,6050,7290
2030	BBC	638(C),1322(C),3989(C), 5975,9410
	Syria	872,1070,1313,9545
2100	R. Sweden	9605(H)
	VoA	1259,6015,7170,7290
2115	BBC	638(C),1322(C),9410
2245	BBC	638(C),1322(C)

For your notes:

TO SOUTH AND SOUTH-EAST ASIA

		kHz
0000	R. Australia	11965
	BBC	1410(E),3952.5,5975,6140(C), 6195(T),7120(T),7140(T), 9570(T),9590(T),11955(T), 15435(T),17880(T)
	R. Japan	15195
	FEBC, Manila	11890,15235,17810
	VoA	6185,9545
0030	R. Australia	11965,17860
	BBC, Engl. by R.	6080(T),7180(T),9725(T)
	BBC	3952.5,6195(C),7140(C)
	Sri Lanka	6005,9720,15425
0100	R. Japan	17880
	Laos	7145
	FEBC, Manila	15235,15390,17810
	R. Veritas, Manila	11725,15280
	Hanoi, Vietnam	10040,12035
	VoA	7110,11740,11760,15185, 15220,17790
0120	Deutsche Welle	6065,7210,7285,9690
0130	R. Australia	11965,15410,17860
0145	BBC, Asian Sce	3952.5,6195(C),7140(C)
0200	BBC, Asian Sce	1410(E),3952.5,6195(C), 7140(C)
	R. Japan	17880
0230	BBC	1410(E),3952.5,6195(C), 7140(C)
	FEBC, Manila	15390,17810
	Sri Lanka	9720,15425
	r UN Radio	15155(P),15270(Di),17750(P), 17850(D)
0300	R. Australia	15410,17860
	R. Japan	17880
0315	BBC	3952.5,7140(C)
0330	a Adv. World R, Sri Lanka	9720,15425
0400	R. Japan	17880
0430	Austrian R.	17840
0445	R. Bangladesh	15400,17890,21685
0500	R. Japan	17880
	R. Kuwait	15345
0600	R. Japan	17880
	Laos	7145
	R. Pyongyang	3560(SSB),9820,12075
	b R. Norway	15175
	FEBC, Manila	15390
	a FEBA, Seychelles	15160
0625	R. Malaysia	6175,9750,15290
0630	FEBA, Seychelles	15160
0645	RBI, GDR	17700,17740
0700	R. Tirana	9500,11985
	R. Japan	17880
	Switzerland	9560,11775,11950,15305
0730	R. Prague	15395,21700
0800	R. Australia	11705,15190,15410,17860
	R. Japan	15195
	a R. Norway	15135
	FEBC, Manila	9505
0830	Austrian R.	17850
	R. Prague	15395,21700
0840	a R. NYAB, Bhutan	7040
0900	k R. Prague	15395,21700
	BBC	6195(T),9670(T),9740(T), 11750(T),15070,15280(T), 15310(T),15420(C),17695, 17880(T),21660(C)
	VoIndonesia	9710,11790
	R. Japan	15195
	Switzerland	9560,11775,11950,15305
	Hanoi, Vietnam	12035,15012
0930	R. Tirana	9500,11985
	BBC, Engl. by R.	7180(T),9725(T),11955(T)
0945	BBC	6195(T),9670(T),9740(T), 11750(T),15070,15280(T), 15310(T),15420(C),17695, 21660(C)
1000	R. Australia	9540,11705
	R. Japan	15195
	R. Moscow	31,25,19,16,13+ mb
	Hanoi, Vietnam	10040,12035
1030	Sri Lanka	11835,15120,17850
	Peace & Progress	41§,31,25,19,16mb
1055	R. Thailand	928,9655,11905
1100	BBC	6195(T),9670(T),9740(T), 11750(T),12095,15070, 15280(T),15310(T),15420(C), 17695,21660(C)
	VoIndonesia	11790
	R. Japan	15195
	FEBC, Manila	7225,11890
	R. Sweden	17770(USB – H)
	VoA	6110,7165,9760,11715
	R. Moscow	49§,31,19,16mb
1115	R. Japan	9675,11875
1130	BBC	6195(T),9740(T),11750(T), 12095,15070,15310(T), 15420(C)W,21660(C)W
	Seoul, Korea	600,7150,9600,9640,11860
	VoA	1580,6110,7165,9760,11715
	Peace & Progress	25§,19,16,13+ mb
1200	R. Peking	6290,8660,11650,12450, 15270
	RBI, GDR	15115,17880,21540
	Israel	15465
	R. Pyongyang	3560(SSB),7580,9420,9510
	R. Japan	11815
	a R. Norway	11850
	R. Bucharest	11830,15345
	VoA	6110,7165,9760,11715
	R. Tashkent	49,41,31mb
1215	FEBC, Manila	15440
1220	W R. Ulan-Bator	5960,6383
1230	Austrian R.	17765
	R. Bangladesh	11890,15270
	d R. NYAB, Bhutan	7040
	Sri Lanka	7190,9720,15425
	Peace & Progress	31§,25,19+,16+ mb
1245	BBC	6195(T),9740(T),11750(T), 12095,15070,15310(T)
	BBC, Engl. by R.	3915(T),7180(T),9725(T)
1300	R. Peking	6290,6590,7660,8660,11650, 15270
	BBC	1410(E),6195(T),9410, 9740(T),11750(T),12095, 15070,15310(T)
	R. Japan	11815
	f Adv. World R, Sri Lanka	7190,9720,15425
	VoA	6110,7110,7165,9670,9760, 11715,11935
	Peace & Progress	31,25§,19,16+ mb
	Hanoi, Vietnam	10040,12035
1315	R. Cairo	17920
	Switzerland	9735,11745,11870,15430
1330	All India R:	11810,15335
	Laos	7145
	g Adv. World R, Sri Lanka	7190,9720,15425
1400	R. Afghanistan	4775
	R. Tirana	9500,11985
	R. Peking	3985,5030,7315,9860,11650
	RBI, GDR	17880,21540
	R. Nederland	15120(L),15185(L),17810(L)
	R. Japan	11815
	a R. Norway	17800
	FEBC, Manila	11920,15440
	R. Veritas, Manila	9610,11800,15260
	W R. Portugal	17895
	R. Sweden	9750(Ka),11920(H)
	R. Tashkent	49,41,31mb
1430	R. Prague	5930,7345,9605,11990, 15110,17840
	BBC	6195(T),9410,9740(T), 11750(T),12095,15070, 15310(T)
	q R. Budapest	7200,9585,11910,15160, 17785,21525
	VoA	1580,6110,7110,7165,9670, 9760,11715,11935
	Peace & Progress	41,31,25,19+ mb
1445	R. Ghana	21545,21720

TO SOUTH AND SOUTH-EAST ASIA

			kHz
1500		R. Australia	6005,7240,9540,11705,11760
		R. Peking	4020,5030,7315,9860,11650
		BBC	3915(T),6195(T),9410,9740(T), 11750(T),12095,15070,15310(T)
		R. Japan	11815
		R. Maldives	4740
		R. Bucharest	7225,9530,11940
		VoA	1580,6110,7110,9670,11935
		R. Moscow	49§,41,31,25+,19+ mb
1515	W	Vatican R.	9550,11875,15165
1530		R. Prague	7345,11990
		RBI, GDR	11975
		FEBA, Seychelles	11810,15325
		Peace & Progress	41,31,25,19+ mb
1600		BBC	3915(T),6195(T),9410, 9740(T),11750(T),11955(T), 12095,15070,15310(T)
		R. Japan	11815
	W	R. Portugal	17895
		VoA	6185,7110,7170,9670,9700, 9760,11935
		R. Moscow	41§,31,25mb
		Hanoi, Vietnam	1240,10040,12035
1615		BBC	6195(T),9740(T),11955(T)
1630		BBC, Engl. by R.	6050(T),7180(T),11910(T)
		R. Japan	7250,9670
1645		BBC	6195(T),7180(T),9740(T), 11955(T)
1700		BBC	1410(E),6195(T),7180(T), 9740(T),11955(T)
		R. Japan	11815
		R. Kuwait	9555,9580
1715	W	R. Ulan-Bator	9574,11856
1720		Deutsche Welle	7160,9590(Ma),11785,11925(Ma)
1800		R. Peking	1210,5090,6590
		R. Japan	11815
		Hanoi, Vietnam	10040,12035
1815		R. Bangladesh	11940,15180
1830		BBC	1412(E)
		R. Nederland	6020(M),11730(L),15375(L)
1900		R. Japan	11815
2000		R. Japan	11815
		Seoul, Korea	940,7150,9600,9640,11860
2100		R. Japan	11815
2200		BBC	5975,6195(T),7120(T), 9570(T),9580(T),11955(T)
		R. Japan	15195
		VoA	6185,9545
2230	j	Vatican R.	7235,9615,11705
2245		All India R.	3905,6085,7215,9590,11710
2300		BBC	5975,6195(T),7120(T), 9570(T),9580(T),11955(T), 15435(T)
		R. Japan	15195
		Seoul, Korea	7150,9600,9640
		R. Pyongyang	3560(SSB),11535,15630
		FEBC, Manila	11890
		VoA	6095,6185,9545
2315		BBC	5975,6195(T),7120(T), 9570(T),11955(T),15435(T)
2330		BBC, Engl. by R.	3915(T),6080(T),7180(T), 9725(T)
		VoIndonesia	9710,11790
		FEBC, Manila	11890,15440
2345		FEBC, Manila	11890,15235,15440,17810

TO EAST ASIA

			kHz
0000		BBC	6195(T),7120(T),11955(T), 15435(T),17880(T)
		FEBC, Manila	11890,17810
0030		BBC, Engl. by R.	6080(T),7180(T),9725(T), 17880(T)
		TWR, Bonaire	11925
		AFRTS, NY	11840(P),15330(Di),17765(Di)
0100		Laos	7145
		FEBC, Manila	15390,17810
		Hanoi, Vietnam	1240,10040,12035
0130		R. Australia	15355
0230		R. Pakistan	17830,21590
0350		RAI, Italy	9630,9710,11905
0400		AFRTS, NY	9700(Di),11805(Di), 11840(P),15330(Di)
0445		R. Bangladesh	15400,17890,21685
0500		AFRTS, NY	9700(Di),11805(Di),11840(P)
0600		Laos	7145
		FEBC, Manila	15390
0625		R. Malaysia	9750,15290
0700		Switzerland	9560,11775,11950,15305
		KGEI, Redwood	5980
0800	a	R. Norway	15135
		FEBC, Manila	9505
		AFRTS, NY	6095(Di),9700(Di),11840(P)
0830		Austrian R.	15105
0900		BBC	6195(T),9670(T),9740(T), 11750(T),15280(T),17880(T)
		Switzerland	9560,11775,11950,15305
		Hanoi, Vietnam	12035,15012
0930		Deutsche Welle	9650,11850,15275,17715, 17780,17825(Ki),21540(Ki)
		BBC, Engl. by R.	7180(T),9725(T),11955(T)
0945		BBC	6195(T),9670(T),9740(T), 11750(T),15280(T)
1000		All India R.	11725,15190,17387
		KGEI, Redwood	5980
		Hanoi, Vietnam	10040,12035
1015		VoGreece	9530,15345
1030	q	R. Budapest	7155,9585,11910,15160, 17715,21525
1100		R. Australia	9760,11740
1100		VoA	6010,6110,6185,7165,9565
1130		BBC	6195(T),9740(T),11750(T)
1200	a	R. Norway	15135
		AFRTS, NY	5995(P),6095(Di),9700(Di)
1215		FEBC, Manila	15440
1220	W	R. Ulan-Bator	5960,6383
1230		R. Bangladesh	11890,15270
		R. Sweden	9745(Ka)
1245		BBC, Engl. by R.	7180(T),9725(T)
1300		Hanoi, Vietnam	1240,10040,12035
1315		Switzerland	9735,11745,11870,15430
1330		All India R.	11810,15335
		Laos	7145
1400		R. Australia	9760
		R. Nederland	11740(M)
		FEBC, Manila	11920,15440
		VoA	6010,6185,7165,9565
1500		BBC	3915(T),6195(T),9740(T), 11750(T)
		AFRTS, NY	5995(P),9700(Di),11805(Di)
1600		Hanoi, Vietnam	1240,10040,12035
1630		AFRTS, NY	5995(P)
1715	W	R. Ulan-Bator	9574,11856
1800		Hanoi, Vietnam	10040,12035
1815		R. Bangladesh	11940,15180
2000		R. Australia	9600
2100		Deutsche Welle	7130,9765
2130		AFRTS, NY	5995(P),15330(Di),17765(Di)
2200		BBC	6195(T),7120(T),9580(T), 11955(T)
		RAI, Italy	5990,9710,11905
	a	R. Norway	6180,9550
		VoA	6185,11760,15250,17895
2245		All India R.	3905,6085,7215,9525,9590, 11770,11825,11850
2300		BBC	6195(T),7120(T),9580(T), 11955(T),15435(T)
		FEBC, Manila	11890
2315		BBC	6195(T),7120(T),11955(T), 15435(T)
2330		FEBC, Manila	11890,15440
2345		FEBC, Manila	11890,15440,17810

TO OCEANIA

		kHz
0000	R. Australia	11790,15140,15240
0050	R. New Zealand	15130
0100	R. Australia	11790,15140,15160,15240, 15320,17795
	R. New Zealand	11705,15130
	AFRTS, NY	11840(P),15330(Di),17765(Di)
0130	R. Australia	11790,15140,15160,15240, 15330,15355,17795
0300	R. Australia	15140,15160,15240,15320, 15355
0350	RAI, Italy	9630,9710,11905
0400	R. Australia	11740,15140,15160,15190, 15240,15320,15355
	AFRTS, NY	9700(Di),11805(Di),11840(P), 15330(Di)
0430	Austrian R.	17840
	R. New Zealand	11705
0440	R. New Zealand	9540,11705
0500	R. Australia	11740,15140,15240,15355
	Israel	12045
	AFRTS, NY	9700(Di),11805(Di),11840(P)
0545	BBC	5975,7150,9640
0600	R. Australia	11740,15160,15240,15320, 15355
	R. New Zealand	9540,11780
0630	R. Nederland	9630(B)
0645	R. Bucharest	11830,11940,15250,15380
0700	R. Tirana	9500,11985
	R. Australia	5995,9500,9515,9570,9760, 11740,11790,15355
	BBC	5975,7150,9640,11955
	Switzerland	9560,11775,11950,15305
0730	R. New Zealand	11780
	R. Prague	11855
	BBC	7150,9640,11955
0800	R. Australia	5995,6045,9500,9515,9570, 9760,11740,11790,15355
	R. Nederland	9715(B)
	a R. Norway	9550,11895
	FEBC, Manila	11890,11920
	AFRTS, NY	6095(Di),9700(Di),11840(P)
	R. Moscow	31§,25,19,16+ mb
0830	R. Australia	5995,6045,9500,9570,9760, 11740,11790,15355
	R. Peking	7035,9460,9530,11445, 12450,15060,15480
	R. Prague	11855
0845	R. Australia	5995,6045,9500,9570,11740
	r UN Radio	5955(Di),9555(Di)
0900	R. Australia	5995,6045,11740
	k R. Prague	11855
	BBC	7150,9640,9670(T),9740(T), 11750(T),11955,15070,15310(T)
	Switzerland	9560,11775,11950,15305
0915	BBC	9670(T),9740(T),11750(T), 15070,15310(T)
	VoGreece	9530,15345
0930	R. Tirana	9500,11985
	R. Australia	5995,6045
	R. Peking	7035,9460,9530,11445, 12450,15060,15480
	Deutsche Welle	9560,11850,15275,17715, 17780,17825(Ki),21540(Ki)
	R. Japan	11875,15235
1000	R. Australia	5995,6045,11790
	All India R.	11775,15165,15205
1030	q R. Budapest	7155,9585,11910,15160, 17715,21525
1100	R. Australia	5995,6045,7240,9760,11740
	BBC	6195(T),9670(T),9740(T), 11750(T),15070,15310(T)
	R. Sweden	15305(H)
	VoA	5955,9730
1130	BBC	6195(T),9740(T),11750(T), 15070,15310(T)
1200	AFRTS, NY	5995(P),6095(Di),9700(Di)
1230	Austrian R.	17765
1300	R. Australia	5995,6045,7240
1315	Switzerland	9735,11745,11870,15430
1400	R. Australia	5995,6045,7240,9760
	R. Tirana	9500,11985
1445	R. Ghana	21545,21720
1500	AFRTS, NY	5995(P),9700(Di),11805(Di)
1630	AFRTS, NY	5995(P)
1730	R. Australia	5995,6045,9760
1800	R. Australia	5995,6045,7220,9540,9580, 11810
	R. New Zealand	9770,11960
1900	R. Australia	5995,6045,7220,9540,9580, 11725,11810
1950	R. New Zealand	11960
2000	R. Australia	9600,11725,11810
	R. Canada	15290,15325,17820
	BBC	5975,7120,9410,11750, 15260(A)
	R. New Zealand	11960,15130
2045	All India R.	7145,9912,11740
2100	R. Australia	6035,6045,7240,9580,9600, 11725,11790,11810,15160
	Deutsche Welle	7130,9765
2115	BBC	9410,11750,15260(A)
	VoGreece	6140
2130	AFRTS, NY	5995(P),15330(Di),17765(Di)
2200	R. Australia	11725,11790,15160
	BBC	9410,9570(T),11750, 15260(A)
	RAI, Italy	5990,9710,11905
	VoA	15290,17820,21610
2210	Vatican R.	7235,9615,11705
2215	BBC	9410,9570(T),11750
2300	R. Australia	11725,11790,15140,15160, 15240
	FEBC, Manila	21515
2330	R. Australia	11790,15140,15160,15240

For your notes:

TO NORTH AMERICA — **kHz**

†=to Eastern NA, ‡=to Western NA

0000 R. Tirana 7065,9750
R. Sofia 9700
†R. Peking 5030,6810,11675,11945, 15060
4VEH, Haiti 1035,6120,9770,11835
R. Japan 15105
b†R. Norway 6180,9550,9645
†R. Moscow 49,41,31,25,19mb
0015 Belgium 9725
VoGreece 9750,9760,11875
0030 BBC 5975,6175(S),7325,9510, 9580(A),15260(A)
R. Sweden 6045(H)
R. Kiev 5980,7150,7215,9610, 11690,15100
0100 ‡R. Australia 15320,17795
†R. Peking 5420,7120(Ti),8240,8450, 9290,9780(Ti),9940,11375, 11420,11455,11945,12015, 12055,15060
R. Canada 9535,11940
R. Habana Cuba 9685,11725
R. Prague 5930,7345,9540,9630,9740
†RBI, GDR 9730
RAI, Italy 6010,9575
R. Japan 15105
VoSpain 6065,11880
Vatican R. 5995,6105,9605
0130 R. Tirana 6200,7300
Austrian R. 6155,9770*
†Deutsche Welle 6010,6040(An),6075,6100(Ma), 9565(Ma),9590(An),9605, 11865(Ma)
R. Japan 11840,15195,15420,17825
R. Bucharest 5990,6190,9570,11940
0145 †Switzerland 5965,6135,9725,11715
0200 R. Canada 6000,9605
†R. Peking 5420,8240,8450,9940,10865, 11455,12015,12055,15060
R. Cairo 9475
†R. Nederland 6165(B)
R. Budapest 6000,7215,9585,9833,11910, 15220,17710
R. Japan 15105
Seoul, Korea 7150,9600
b†R. Norway 6180,9550,9645°
Polish R. 49,31,25,19mb
VOFC, Taiwan 9685,11825,15425,17890
0215 VoGreece 9750,9760,11875
0230 R. Tirana 6200,7300
†RBI, GDR 9730
R. Portugal 6025,11935
R. Sweden 6045(H),9695(Ka)
0300 r RAE, Argentina 9690
R. Canada 5960,6000,9605,9655
‡R. Peking 7120(Ti),8240,9290,9460, 9780(Ti),10865,11375,11420, 11630,11650,12055,15060, 17530
t TIFC, Costa Rica 6035
R. Prague 5930,7345,9540,9630,9740
LV Evangélica, Honduras 4820
R. Budapest 6000,7215,9585,9833,11910, 15220,17710
R. Japan 15105
†R. Moscow 49,41mb
R. Kiev 5980,7215,7245,7400,9580, 9780,11860
0315 BBC 5975,6175(S),7325,9510, 9580(A)
0320 r TIFC, Costa Rica 9645
0330 R. Tirana 6200,7300
Austrian R. 6155,9770*
R. Habana Cuba 9685,11725,11760
R. Finland 6120
‡RBI, GDR 5955,6080,9730
BBC 5975,6175(S)
‡R. Moscow 49§,41,31mb

0400 R. Canada 5960,9655
‡R. Peking 8240,9460,10865,11630, 11650,12055,15060,17530
x R. Budapest(DX) 6000,7215,9585,9833,11910, 15220
R. Japan 9505
Seoul, Korea 9640,11860
R. Bucharest 5990,6190,9570,11940
0415 R. Thailand 9655,11905
0430 R. Tirana 7300,9480
‡Austrian R. 6015
R. Sofia 7115
BBC 6175(An)
‡Switzerland 6045,9725
0450 R. Habana Cuba 11725,11760
0500 R. Casino, Costa Rica 5955
‡R. Nederland 6165(B),9715(B)a
Israel §:5900,7395,7412.5,9009°, 9815. +:7395,7412.5,9009, 9815,12025°. *:7412.5,9009, 9815,12025°.
R. Japan 9505
R. Portugal 6025,11935
0530 ‡Deutsche Welle 5960(An),6100,6185,9545, 9760(An)
0600 r RAE, Argentina 9690
R. Japan 9505
b‡R. Norway 6180,9645
0630 R. Habana Cuba 9525
0700 R. Japan 9505
0800 R. Japan 5990
0900 R. Japan 5990
1000 R. Pyongyang 3560(SSB),9420,11535
R. Japan 5990
Seoul, Korea 7150
Saudi Arabia 11855
a R. RSA 11970,15125
1100 R. Tirana 9500,11985
†R. Australia 9580
BBC 5990(S),6195(An),11750(T), 15070
4VEH, Haiti 1035,6120,9770,11835
R. Japan 5990
TWR, Bonaire 11815
1200 Israel 11655,12025,15100,15485, 17685(not §)
R. Japan 5990
VoGreece 15345,17830
1230 k TWR, Bonaire 15255
†R. Sweden 15305(H)
1300 †Deutsche Welle 9605(An),11810(An),11970
R. Japan 5990
1315 Switzerland 15140
1330 R. Finland 11755,15110
1400 R. Japan 5990
†R. Sweden 15305(H)
1430 R. Finland 11755,15110
1500 BBC 9580(S)k,15365(S)k,17840(A)
R. Japan 5990
1515 VoGreece 11760,15345,17830
1530 Seoul, Korea 9640
1545 R. Grenada 9550
1600 BBC 9580(S),15365(S),17840(A)
R. Japan 5990
a†R. Norway 15175,15345
1615 BBC 9580(S),15365(S)
1640 q R. Nederland 15190(B),17775(B)
1709 BBC 9380(S),15365(S)k
R. Japan 5990
1745 BBC 9580(S)
1800 R. Japan 5990
Seoul, Korea 11860
a‡R. Norway 11895,15345
1900 R. Japan 9505
Saudi Arabia 11855
2000 R. Ghana 11850
BBC 6195(An),9580,9600(An), 11750,15260(A)
Israel §:5900,7412.5. +:7412.5, 9815. *: 9815,11645

TO NORTH AMERICA

			kHz
2000		R. Japan	9505
2050		R. Habana Cuba	11865,17750
2100		R. Japan	9505
2115		BBC	5975,9580,11750,15260(A)
2130		R. Sofia	9700
	w†	R. Nederland	9715(L),11730(L)
2200		R. Japan	15105
	a†	R. Norway	9645
		VoTurkey	9515
		R. Nac. Venezuela	6170,15390
2205		R. Grenada	3300
2230		Israel	§:5900,7412.5,9435,9815. +/*:7412.5,9009,9435,9815
2230		R. RSA	5980,9585,11800,11900
		†R. Moscow	49,41,25,19,16mb
2245		BBC	5975,7325,9580,15260(A)
2300	q	R. Canada	5960
		BBC	5975,6175(S),7325,9510(S), 9580(A),15260(A)
		R. Prague	6055,9740
		R. Japan	15105
		R. Sweden	6045(H),6120(H),9695(Ka)
		R. Vilnius	41,31,25,19mb
2330		R. Thailand	9655,11905
2345		R. Japan	9525,11800

TO CENTRAL AND SOUTH AMERICA

			kHz
0000		4VEH, Haiti	1035,6120,9770,11835
	b	R. Norway	6180,9550,9645
		VoA	6130,9640,11740,15205
0030		BBC	5975,9510,9580(A),9915, 15260(A)
		AFRTS, NY	6030(By),9755(By)
0100		R. Canada	9635,11940
		WYFR, Scituate	6155
0130	b	La Cruz del Sur,	
		Bolivia	4875
		R. Japan	11840,15195,15420,17825
		AFRTS, NY	6030(By)
0145	y	R. Cultural,	
		Guatemala	3300
		Switzerland	5965,6135,9725,11715
0200		R. Canada	6000,9605
	b	R. Norway	6180,9550,9645
0300	q	RAE, Argentina	9690
		R. Canada	5960,6000,9605,9655
	t	TIFC, Costa Rica	6035
		R. Lumière, Haiti	660,720,740,760,780
	W	R. Metropole,	
		Haiti	1280
		LV Evangélica,	
		Honduras	1380,4820
0315		BBC	5975,9510,9580(A),9915
0320	r	TIFC, Costa Rica	9645
0400		R. Canada	5960,9655
	b	R. Norway	6180,9550
0500		R. Casino,	
		Costa Rica	5955
0600	q	RAE, Argentina	9690
0600		AFRTS, NY	6030(By),9755(By)
1000		Seoul, Korea	7150
		R. Pyongyang	3560(SSB),9420,11535
	a	R. RSA	11970,15125
1100		BBC	5990(S),6195(An),11750(T), 11790(An),15070
		4VEH, Haiti	1035,6120,9770,11835
1130		AFRTS, NY	9755(By)
1230		AFRTS, NY	9755(By),15330(By)
1300		AFRTS, NY	15330(By)
1315		Switzerland	15140
1500		BBC	9580(S)k,15365(S)k,17840(A)
1600		BBC	9580(S),15365(S),17840(A)
	a	R. Norway	15175,15345,21655
1615		BBC	9580(S),15365(S)
1745		BBC	9580(S)
2000		R. Ghana	11850
		BBC	15260(A)
2050		R. Habana Cuba	11865,17750
2115		BBC	11750,15260(A)
2200	a	R. Norway	9645
		R. Nac. Venezuela	6170,15390
2230		Israel	9435
2245		BBC	5975,9915,11750,15260(A)
2300		BBC	5975,9510(A),9580,9915, 11750,15260(A)
		R. Nederland	800(B)
		AFRTS, NY	9755(By),15330(By)
2330		BBC	5975,9580(A),9915,15260(A)
		AFRTS, NY	9755(By)
2345	a	R. Cultural,	
		Guatemala	3300

For your notes:

STANDARD FREQUENCY STATIONS

The ordinary SW-listener soon notices a specialized technical prgr. of tones and time pulses usually received on carrier freqs of 2.5, 5, 10 or 15MHz and sometimes on 20 and 25MHz, if he listens in that part of the spectrum. These signals have many uses in science and technology. They are most useful to the non-specialist in obtaining accurate time, in checking the calibration of his radio receiver, and in gaining information on radio propagation conditions. The forecasts of the present and future state of the ionosphere can be quite useful in determining the possibilities of SW-reception. The forecasts are given by JJY for certain parts of the globe.

R. STN. WWV, WWVH, WWVB and WWVL (Gov.)

St. WWV, 2000 East County Rd. 58, Fort Collins, Colorado 80521, USA; St. WWVH, P.O. Box 417, Kekaha, Kauai, Hawaii 96752; WWVB, 2000 East County Rd. 58, Fort Collins, Colorado, USA.
L.P: Time and Freq. Sces Section: Sandra Howe. National Bureau of Standards, Boulder, Colo. 80302. Eng. in Charge: John B. Milton (WWV, WWVB). Eng. in Charge: Charles Trembath (WWVH).
Standard Radio Frequencies: WWV, 5000kHz 10kW, 10000kHz 10kW, 15000kHz 10kW, 20000kHz 2.5kW, 25000kHz 2.5kW.
The broadc. are continuous night and day. WWVH 2500kHz 5kW, 5000kHz 10kW, 10000kHz 10kW, 15000kHz 10kW, 20000kHz 2.5kW. Continuous – WWVB 60kHz 13kW: Continuous.
Programme: Effective 1 July 1971, the broadcast formats of WWV and WWVH were changed to include voice time ann. every min. instead of every five min. and to eliminate the Morse Code. To eliminate confusion between the two stations, the WWV ann. are made by a male and the WWVH ann. by a female. At WWV, commencing about 7½ seconds before the min, a male voice ann. of UTC (Coordinated Universal Time) is given as follows: "At the tone . . . hours . . . minutes UTC (Coordinated Universal Time)". At WWVH, Commencing about 15 seconds before the min. a female voice ann. of UTC is similarly given. (The terms of "GMT" and "Z" are accepted as the general equivalents of UTC in navigation and communication).
Standard audio tones of 500 and 600Hz of 45-second duration are broadc. on alternate min. from each station. The beginning of each h. is identified by a 1500Hz tone of 0.8 second duration.
The Morse Code was deleted in the format. Ann. of weather information are given in plain language. At WWV weather information is given between the 8th and 9th and between the 9th and 10th and between the 10th and 11th min. At WWVH weather information is given between the 48th and 49th and between the 49th and 50th and between the 50th and 51st min. St. identification at WWV is given 1 min. after the h. and 31 min. after the h. St. identification at WWVH is given 1 min. before the h. and 29 min. after the h.
WWVB transmits a special BCD time code consisting of 10db carrier reductions each second (format on request). Transmitted phase will be advanced 45° for 5 min. each h. between 10 min. and 15 min. after the hours. No other identification will be given – **V.** by QSL-card or letter.
Pub: Prgr. sched. on request.

STATION LOL

Addr: Servicio de Hidrografia Naval, Observatorio Naval, Avenida Costanera Sur 2099, Buenos Aires, Argentina.
Standard Freq. and Signals: 5000kHz 2kW, 10000kHz 2kW, 15000kHz 2kW; 1100-1200, 1400-1500, 1700-1800, 2000-2100, 2300-2400. **Schedule:** 3 min. dash (1000 or 440cs alternately) beginning at 00.00, 00.05, 00.10, etc. followed by 2 min. ann. at the mins 03/04, 08/09, 13/14, etc. . . .("Observatorio Naval Argentina . . .Horas . . . minutos"). TS transmission at min. 55-58 in each h – **V.** by QSL-folder.

STATION VNG TELECOM AUSTRALIA

Addr: VNG Broadcasting Branch, Telecom Australia, 172 William St, Melbourne, Vic. 3000, Australia. **Cable:** "Radiogen".
Stations: Lyndhurst: 4500kHz 0945-2130; 7500kHz 2245-2230; 12000kHz 2145-0930 (all 10kW).
The st. transmits seconds signals of 50 cycles of 1000Hz tone. The 59th second of each min. is omitted and the minute marker is 0.5 second long. Seconds 55 to 58 are shortened to 5 cycles. For mins 5, 10, 15, etc. seconds 50 to 58 are shortened to 5 cycles. The deviation of the signals from UTI is transmitted each minute using the method recommended by the CCIR. The average daily frequency deviation does not exceed ± 1 part in 10^{10}. Between seconds 20 and 50 of mins 15, 30, 45 and 60, a recording is played: "This is VNG Lyndhurst Victoria Australia on 4.5, 7.5 or 12MHz. VNG is a standard Frequency and Time Signal service of the Australian Telecommunications Commission. This is VNG Lyndhurst Victoria Australia on 4.5, 7.5 or 12MHz".

OBSERVATORIO NACIONAL, Brasil

Responsible by Legal Time in Brasil, originates time signals, which are broadcast by stations:
PPE. Addr: Servico da Hora, Observatório Nacional (MEC), Rua General Bruce 586, 20000 Rio de Janeiro, ZC-08-RJ, Brasil. Chief Eng: Paulo Mourilhe Silva.
Frequency: 8721kHz: 0025-0030, 1125-1130, 1325-1330, 1925-1930, 2025-2030, 2325-2330.
PPR. Addr: Coast Station "Embratel", Estrada da Matriz 2960, Guaratiba (ZC-26), Rio de Janeiro 20000, RJ, Brasil.
Stations: 435, 3244, 8634, 12687, 17077, 22352.5kHz: 0125-0130, 1425-1430, 2125-2130 (retransmissions of time signals from Observatório Nacional).

NATIONAL RESEARCH COUNCIL, Canada

Addr: R. Station CHU, National Research Council, Ottawa, Ontario, Canada, K1A OS1.
Stations: CHU 3330kHz 3kW; 7335kHz 10kW; 14670kHz 3kW (all antennas vertical).
TS: Continuous by voice and seconds pulses. Freq. and time signal control by cesium clock.
Ann: English: "CHU Canada, Eastern Standard Time . . .". French: "CHU Canada, Heure normal de l'est . . .". Identification of DUTI=UTI – UTC by split second code – **V.** by QSL-card. Re. welcomed – **Pub:** Station information free.

STATION CCV, Chile

Addr: Instituto Hidrográfico de la Armada, Casilla 324, Valparaiso.
L.P: Dir: R. Herrera A.
Stations: 4298, 8558kHz – **Transmissions:** 1155-1200, 1555-1600, 1955-2000, 0055-0100 – **V.** by letter. Re. in Spanish.

TIME SIGNAL STATION BPV

Addr: Zi-ka-wei Observatory, Shanghai, China.
Stations: On 5000kHz: 0800-1700; 10000kHz: 24h; 15000kHz: 1700-0800. On 5430/9351kHz: Time signals 5 mins before and 5 mins after the hours: 0300, 0500, 0700, 0900, 1100, 1300, 1400, 1500, 1600, 2200. At 1500 and 2200 only on 9351kHz.
Ann: In Morse Code at 1st and 31st min. of the h.

ASTRONOMICAL INSTITUTE, Czechoslovakia

Addr: Budecska 6, 12023 Praha 2, Vinohrady, Czechoslovakia. **Te:** 258758.
L.P: Dir: V. Bumba.
Stations: OMA 50kHz 0.2kW: 24h – OMA 2500kHz 1kW: 24h – OLB5 3170kHz 5kW: 24h.
Ann: In Morse Code OMA 2500kHz only – **V.** by QSL-card to DX-reports only. Re. wanted to Time Division.

CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS

FFH. Addr: 38-40, rue du Général Leclerc, F-92131 Issy-les-Moulineaux, France. **Te:** (645)-4444.

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Station: FFH 2500kHz 5kW: 0800-1625(Mon-Fri).
Ann: In Morse after the 30th second of the 0th, 10th, 20th, 30th, 40th and 50th min – **V.** by letter.

BUREAU INTERNATIONAL DE L'HEURE

Addr: 61 Avenue de l'Observatoire, 75014-Paris, France.
L.P: Dir. B. Guinot.
Stations: St. André de Corcy FTA91 91.15kHz 45kW: 0800, 0900, 0930, 1300, 2000, 2100, 2230; Pontoise FTH42 7428kHz 6kW: 0900, 2100 – FTK77 10775kHz 6kW: 0800, 2000 – FTN87 1387kHz 6kW: 0930, 1300, 2230 – **V.** by QSL-card.

DCF77, MAINFLINGEN, Germany

Addr: Physikalisch-Technische Bundesanstalt, 38 Braunschweig, Bundesallee 100, Fed. Rep. of Germany.
Cable: Bundesphysik. **Te:** 5921.
L.P: Pres: Prof. Dr. h.c. G. Becker.
Station: DCF77 77.5kHz 50kW 24h second pulses, coded transmission of numbers of minute, hour, day, day of week, month and year in CET – **Pub:** Prgr. schedule on request – **V.** by letter.

GERMAN HYDROGRAPHIC INSTITUTE

Addr: P.O. Box 220, 2000 Hamburg-4, W. Germany. **Te:** 311121. **Cable:** Hydrodienst, Hamburg. **Telex:** 211138 bmvhh.
L.P: Head Time Sce: Dr. H. Enslin.
Unmodulated time signals at 2355-0006 on DAN-2614kHz(2kW), DAO-2775kHz(2kW), DAM-6475.5kHz(5kW) (21/4-20/10); DAM-12768.5kHz(15kW) (21/4-20/10); DAM-4265kHz(5kW) (21/10-20/4); DAM-8638.5kHz(10kW) (21/10-20/4); 1155-1206 on 2164, 2775, 8638.5, 16980kHz(15kW) – **V.** by letter.

TIME SIGNAL STATION NAUEN

Addr: Amt für Standardisierung, Messwesen und Warenprüfung der DDR, Staatlicher Zeit- und Frequenzdienst, Wallstr. 16, DDR – 1026 Berlin.
Station (DIZ): 4525kHz 5kW.
D.Prgr: 24h exc. 0815-0945 for maintenance if necessary. Type of transmission A1 type, second pulses of 0.1 s. duration, minute pulses of 0.5 s. duration.

TIME SIGNAL STATION ORANIENBURG

Addr: As for Time Signal Nauen.
Station (DGI): 185kHz 750kW.
D.Prgr: 30 seconds before 0600, 1200, 1800.
Type of transmission: Second pulses of 0.1 s. duration at the seconds 30-40, 45-50, 55-59, minute pulse of 0.5 s. duration.

NATIONAL PHYSICAL LABORATORY (Gov.)

Addr: Div. of Electrical Science, Teddington, Middlesex, Gt. Britain. **Te:** 01-977 3222. **Cable:** Physics, Teddington.
MSF Standard Frequency Service

kHz	kW	
60	50	continuous
2500	0.5	continuous*
5000	0.5	continuous*
10000	0.5	continuous*

*continuous but tr. interrupted 6 times an h. at mins 5-9½, 15-19½, 25-29½, etc. The 60kHz service now provides BCD Time of Day information.
Ann: Call sign given twice in Morse at minutes 9½-10, 19½-20, 29½-30 on the HF transmissions, and twice in the six seconds preceding the hour on the 60kHz transmission – **V.** by letter.

ROYAL GREENWICH OBSERVATORY

Addr: Time Dept, Herstmonceux Castle, Hailsham, Sussex, England BN27 1RP. **Te:** (032) 181-3171. **Cable:** Observer.
The international Time Signals are radiated by GBR 16kHz 750kW (radiated power: 60kW) (reserve: GBZ 19.6kHz) at 0300, 0900, 1500 and 2100.

HONG KONG TIME SIGNAL STATION

Addr: Royal Observatory, Nathan Road, Kowloon, Hong Kong.
Stations: 338, 5519, 8903, 13344kHz. Broadcast half-hourly at H+15 and H+45 throughout the day (24h). The time signals are in the form of 6 dots at one second intervals – **V.** by letter. Rp.

ATA, NEW DELHI, INDIA

Addr: National Physical Laboratory, Hillside Road, New Delhi-110012.
Station: 10000/15000kHz 8kW: W 0330-1430.
Calcutta VWC: 434, 4286, 12745kHz. 0825-0830 on 434/12745kHz, 1625-1630 on 434/4286kHz – **V.** by letter.

INDONESIAN TIME SIGNAL STATIONS

Addr: Directorate of Posts and Telecommunications, Director of Operations, 37 Kebon Sirih Str, Jakarta.
Stations: 8542kHz(PKI), 11440kHz(PLC).
Schedule: 0055-0100 – **V.** by letter.

IAM, ROME, ITALY

Addr: Istituto Superiore delle Post e delle Telecommunicazioni, Rome.
Station: 5000kHz 1kW: 0730-0830, 1030-1130(W), during summer one h earlier. Time is given in slow speed telegraphy at 0735, 0750, 0805, 0820, 1035, 1050, 1105, 1120 – **V.** by letter.

IBF, TURIN, ITALY

Addr: Istituto Elettrotecnico Nazionale, Corso Massimo d'Azeglio 42, 10125-Torino. **Te:** 688775.
Stations: 5000kHz 5kW: W 0645-0700, 0845-0900, 0945-1000, 1045-1100, 1145-1200, 1245-1300, 1345-1400, 1445-1500, 1545-1600, 1645-1700, 1745-1800 (during summer one hour earlier).
Ann: "IBF, IBF, IBF, Emissioni di frequenze e tempo campioni dell'Istituto Elettrotecnico Nazionale, Torino". The voice ann. is repeated in French and English: "IBF, IBF, IBF, Signaux horaires et fréquence étalon de l'Institut Electrotechnique National, Turin, Italie" and "IBF, IBF, IBF, Standard Frequency and Time Signals from the National Electrotechnical Institute, Turin, Italy" – **V.** by QSL-card.

STATION JJY

Addr: Radio Research Laboratories, 4-1-3 Midoricho, Koganei 184, Tokyo, Japan.
L.P: Chief Freq. Standard Div: Y. Saburi.
Stations (all 2kW 24h): 2500kHz, 5000kHz, 10000kHz, 15000kHz.
All freqs are interrupted at 25-34 mins past each h. Mod. seconds pulses of 8 cycles of 1600Hz and 1000Hz tone. International code of DUTI, consisting of 45 ms-long pulses of 1600Hz, will be tr. during 0-15 sec in each min.
Ann: At 34-35 mins and 59-00 mins in each h. identifying signals are tr. consisting of call-sign in Morse code (twice), time in JST once in Morse code, Call-sign twice in voice, time in JST once in voice and grade of propagation warning in Morse code – **V.** by QSL-card.

MEXICAN TIME SIGNAL STATIONS

1) 4800kHz(XDP), 13043kHz(XDD).
2) 6976.7kHz(XBA), 13953.6kHz(XBA).
Times: 0154-0200(W), 1554-1600(W), 1754-1800(daily).
1) Dirección General de Telecommunicaciones, Chapultepec del Distrito Federal, Mexico, DF.
2) Secretaria de Agricultura y Ganaderia, Tacuboya del Distrito Federal, Mexico, DF – **V.** by letter. Rp.

ZLF, LOWER HUTT, New Zealand

Addr: Physics and Engineering Laboratory, Lower Hutt, New Zealand.
Station: 2500kHz 0.3kW: CW only Wed 0100-0400.
Ann: St. identification is made in Morse code at the beginning and end of each tr – **V.** by letter.

STATION OBC, Peru

Addr: Estación Central de Communicaciones Navales (Radio), Callao, Perú.
Stations: OBC 485/8650/12307kHz: 1555-1600, 1855-1900, 0055-0100(time signals) – **V.** by letter. Rp.

RUSSIAN STANDARD FREQUENCY STATIONS

Addr: Comite d'Etat des Normes, Conseil des Ministéres de l'URSS, Leninski Prospekt, Moscow, USSR.

City	Call	kHz
Moscow	RWM	9996,10000,15000.
	RAT	5000
	RBU	66.66
Irkutsk	RID	5004,10004
	RKM	10004,15004
Novosibirsk	RTA	4996,14996
Tashkent	RIM	5000,10000
	RCH	2500,5000

D.Prgrs: Moscow: RBU: 0000-1205, 1400-1805, 2000-2205; RAT: 2500kHz: 1750-2400; 5000kHz: 0130-0600, 1230-1700; RWM: 9996kHz: 1430-2400; 10000kHz: 0130-0300, 1750-2400; 15000kHz: 0350-1700. **Irkutsk:** RID: 5004kHz: 0000-0110, 1351-2400; 10004kHz: 0151-1310; RKM: 10004kHz: 0000-0110, 1351-2400; 15004kHz: 0151-1310. **Novosibirsk:** 4996kHz: 0000-0239, 1805-2400; 14996kHz: 0305-0439, 0605-1729. **Tashkent:** RCH: 2500kHz: 0000-0350, 0535-0930, 1015-1330, 1415-2400; RIM: 5000kHz: 0215-0350, 1815-0130; 10000kHz: 0535-0930, 1015-1330, 1415-1730.

SOUTH AFRICAN COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH

Addr: Precise Physical Measurements Division, National Physical Research Laboratory, CSIR, P.O. Box 395, Pretoria. **Te:** 74-9111. **Cable:** Navorsfis.
Stations: Call ZUO (Olifantsfontein): 2500kHz 4kW: 1800-0400 daily; 5000kHz 4kW, 100MHz 0.05kW: 24h.
Time Signals: Continuous second pulses, consisting of 5 cycles of 1000Hz tone. The minute pulse is prolonged to ½ second.
Ann: In Morse code every 5 minutes: ZUO ZUO ZUO followed by the Universal time of the next minute – **V.** by QSL-card or letter.

CAPETOWN RADIO

Addr: Private Bag, Milnerton 7435, Cape Town, South Africa.
Stations: 418kHz 5kW, 4291kHz 10kW, 8461kHz 10kW, 12724kHz 10kW, 17018kHz 10kW, 22455kHz 10kW.
Schedule: 0755-0800, 1655-1700. Time signals (one pulse each second); 0030, 0230, 0430, 2030, 2230 traffic list on 418/4291/8461/12724kHz (also at 0630, 0830, 1030, 1230, 1430, 1630, 1830 on same freqs plus 17018/22455kHz).
Wrp: 0930, 1348, 1730 on all freqs – **V.** Reply paid reports addressed to: Senior Technician, are verifed by letter.

NEUCHATEL OBSERVATORY, Switzerland

Addr: 2000 Neuchatel, Switzerland. **Te:** (038)241861.
L.P: Dir: J. Bonanomi.
Station: Prangins HBG 75kHz 20kW: 24h second pulses by carrier interruption. The minute is marked by a double interruption – **V.** by letter. Rp.

STATION BSF, TAIWAN

Addr: Telecommunication Laboratories, Ministry of Communications, P.O. Box 71, Taipei.
Station: BSF 5000, 15000kHz 2kW.
Schedule: 0100-0900 between the minutes 00-05, 10-15, 20-25, 30-35, 40-45, 50-55 – **V.** by letter. Rp.

ISTANBUL TIME SIGNAL STATION

Addr: Kandilli Observatory, Istanbul.
Stations: TAO3 7615kHz.
Schedule: 0835-0845(W), 1335-1345(Mon-Fri), time signals with second pulses. The 59th pulse of each min. is omitted and the 60th is prolonged to mark the complete min. Before each even min. voice ann. in Turkish – **V.** by letter. Rp.

US NAVAL OBSERVATORY

Addr: Navy Department, Washington DC 20390, USA.
VLF Time Signals are aired as follows: **NBA**(Canal Zone) each even h. exc. 2355-2400 and during Wed. maintenance 12h. to 18h on 24.0kHz. **NWC**(Exmouth, Australia): 0028-0030, 0428-0430, 0828-0830, 1228-1230, 1628-1630, 2028-2030 on 22.3kHz 1000kW.
HF Time Signals begin 5 mins before the h. and terminate on the h. **NPM**(Honolulu) 0055, 0255, 0655, 2100 on 23.4kHz. **NPN**(Guam) 0555, 1155, 1755, 2355 on 23.4kHz. High precision corrections are available upon request.

DAILY PHASE VALUES AND TIME DIFFERENCES.

Lists observed phase and/or time differences between VLF, LF, Omega, television, portable clock measurements, Loran-C stations and the US Naval Observatory (USNO) master clock, UTC (USNO, MC). Propagation disturbances and notices of interest for precision timekeeping are also given. (Issued weekly).

OBSERVATORIO NAVAL CAGIGAL, CARACAS

Addr: Apt. 6745, La Planicie, Caracas, Venezuela.
Station: YVTO 6.100kHz 1kW 24h.
Second pulses of 1kHz modulation with 0.1 secs duration. The min. is identified by a 800Hz tone and a 0.5 sec. duration. Sec. 30 is omitted. Between secs 52 and 57 of each min, voice ann – **V.** by QSL-card.

A new time signal and standard frequency station is planned to operate by end of 1976 in Ecuador. Location: On the Pacific coast of Ecuador.

N.B: A detailed list of time signal stations is published by Gerd Klawitter, D-4430, Steinfurt, Ochtruper Str. 38, Germany in May/June each year . Obtainable for DM 2.80 or 4IRCs.

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LAST MINUTE INFORMATION

EUROPE

ALBANIA. Foreign Service: Add 5057, 6170, 6190, 7145, 9510, 9515kHz. *Turkish* now aired at 0300-0330, 1630-1700 on 6065, 7115, 9500, 11985kHz and 1900-1930 on 5960, 7270kHz – **Locations for MWs:** 1088 Dürres, 1214, 1394 Lushnje, 1358 Tirana and 1457 Dürres.

AUSTRIA. SW Service: Add 2200-2300(I) on 7125kHz – Two new German prgrs edited by H.R. Leutgeb can be heard Sun at 0905 and 1445: 2nd Sun *"Radiomuseum"*; 4th Sun *"Funkwetter"*(=radioweather).

BULGARIA. Vidin on 575kHz reported taken out of service.

GERMANY. RFE 719kHz: 0355-0610, 1700-2300 Polish, 1100-1700 and 2300-0040 Czech/Slovak.

GREECE. Foreign Service: *To No. America:* 11730 replaces 11875 at 0000-0150 and 0200-0350; 11730 replaces 11760 at 1500-1550. *To Europe:* 9675 replaces 9760 at 1900-1950. *To Japan:* 1000-1050 on 11760, 15445kHz.

ITALY. Second Prgr: *1034kHz:* Add Salento(9kW), Firenze(6), Oristano(2), Caltanisetta(2), Potenza(1kW). *1313kHz:* Add Catanzaro(1), Campobasso(1) and Matera(1kW) – **L.P:** Add Dir. International Relations: Vittorio Boni.

MALTA. "Malta Calling" in German(Tues) and English(Sat) at 2045-2115 is now broadcast on 6080kHz(replacing 6170kHz).

MONACO. Power for 701kHz is 10kW.

NORWAY. Slight amendment to current SW schedule: 1100-1230 on 6015, 15135, 21730kHz, 1300-1430 and 1500-1630 the freq. 21655 replaced by 21730kHz; 1700-1830 the freq. 11860 is replaced by 11850kHz.

SPAIN. RNE Foreign Service: *To Arab States and Near East:* 7195 has replaced 11810kHz at 1730-2130. *To Ce. and So. America:* Spanish now on 6085kHz at 2300-0300.

USSR. MWs: *998kHz:* add Tselinograd; *1223kHz:* add st. in We. Kazakstan.
R. MOSCOW in English: *To Europe:* 1130-1230 on 9450, 9780, 11705, 11745, 11830, 15190kHz; 1900-1930 and 2000-2030 on 5920, 5980, 6010, 6020, 6175, 7260, 7280, 7360kHz; 2100-2200 on 5970, 6175, 7135, 7190, 7280, 7360kHz; 2200-2230 on 1322(Leipzig), 1493, 5970, 7135, 7190, 7280, 7360kHz.
To Africa: 0345-0400 on 7105, 7190, 9500, 9745, 12010kHz; 0445-0500 on 7105, 9470, 9500, 9550, 9625, 9665, 9705, 9745, 11710, 11755, 11880, 11895, 12010, 15110kHz; 1330-1400(to Sierra Leone) on 11800, 15170, 17765, 17855, 21490kHz; 1500-1530 on 7130, 7155, 7205, 7355, 9625, 9695kHz; 1630-1700 on 9575, 9620, 11880, 11920, 12000, 12055, 15490, 17710, 17765kHz; 1830-1900(to Southern Africa) on 5915, 7120, 9500, 9560, 9575, 9590, 9620, 9630, 9695, 9735kHz; 2130-2200 on 935, 1546, 5915, 7120, 7185, 7295, 7400, 9480, 9490, 9520, 9575, 9650, 9720, 9745, 9760, 9800, 9810kHz; 2230-2300 on 935, 1546, 6085, 7400, 9575, 9760, 9810kHz.
To Australia: 0800-1000 on 9780, 11630(to 0830), 11690(from 0830), 11880, 11940, 15130, 15385kHz.
To So. and So. Ea. Asia: 1000-1030 on 9520, 9745, 9775, 11710, 11720, 11880, 11980, 15130, 15140, 15220, 15330, 15490, 17730, 17765, 17825, 17870kHz; 1100-1130 on 9520, 15140, 15360, 15460, 17730, 17890kHz; 1500-1530 on 1295, 6080, 7115, 7205, 7355, 9625, 9695kHz; 1600-1630 on 5980, 7150, 9470, 9510, 9535, 9675, 9745, 9800, 11860kHz.
To No. America(East): 2230-0100 on 4860, 5940, 6020, 6125, 7105, 7115, 7205, 7235, 7250, 7355, 7440, 9550, 9635, 15140, 15180, 15455, 17720(to 2400), also on 9780 from 0030; 0100-0400 on 4860, 5940, 6070(from 0130), 6125, 6175(to 0300), 7105(to 0300), 7115, 7205, 7355, also on 7440kHz at 0130-0200.
To No. America(West): 0320-0730 on 6020, 6030, 6070(from 0500), 6150, 6185, 7130, 7175(from 0400), 9580, 9635, 9665, 9735 and 9870kHz(to 0400).
R. PEACE & PROGRESS in English: *To Asia:* 1030-1100 on 9520, 9745, 9775, 11710, 11720, 11845, 11980, 15130, 15140, 15150, 15220, 15505, 17730, 17890kHz; 1130-1200 on 11730, 11950, 11960, 11980, 15150kHz: 1230-1300 on 9730, 11730, 11765, 11845kHz; 1300-1330 on 6080, 9550, 11700, 11785, 11890, 15460kHz; 1330-1400 on 7165, 9625, 9775, 11730, 11900, 11905, 15505kHz; 1430-1500 on 5980, 7140, 7150, 9730, 11730kHz; 1530-1600 on 5980, 7165, 7240, 9520, 9655, 11860kHz.
To Africa: 1430-1500 on 7155, 9530, 9665, 9695, 11745, 11775, 11800, 12055, 15205, 15490, 17765kHz.

AFRICA

ALGERIA: Regular Spanish language prgr. at 2300-2400 on 251, 7245, 9610, 11910, 15420kHz. Also the semi-clandestine "La Voz de Canarias Libre" over same freqs.

ANGOLA: R. Nacional de Angola has reinstated its English prgr. at 1145-1200(daily exc. Sun).

CONGO (People's Rep): English 2130-2145(Sat 2115-2130, Sun 2250-2300) and **Portuguese** 2100-2115(Sun 2240-2250) on 6115, 9715, 15190kHz.

EGYPT. SW freqs: Add 11780, 11790, 11860, 15210, 15255, 15335, 17890kHz.

ETHIOPIA. R. Ethiopia: L.P: Gen.Mgr: B. Desta – **Nat. Service:** *Amharic:* Add 1700-1900. Add *Afar:* 0430-0500(Sun), 1400-1500(Mon-Fri), 1430-1500(Sat).

LESOTHO: 4800kHz(reactivated) and carries same prgr. as MW.

MOZAMBIQUE. A Prgr(Maputo): 0355-2210 on 737/6115/7240kHz, 0355-0530 and 1600-2210 on 3210kHz, 0355-0815 and 1600-2210 on 4865kHz, 0355-2100 on 9620kHz, 0355-1900 on 11820kHz, 0700-1500 on 15295kHz.
B Prgr: 0355-2210 on 1358kHz, 0355-0530 and 1600-2210 on 3338kHz, 0355-0815 and 1600-2210 on 4925kHz, 0500-1900 on 6050kHz, 0830-1545 on 7105kHz.
Beira: *A Prgr.*(Portuguese): 1600-2100 on 872kHz. *B Prgr:* Chinhungue: 0355-0600 on 872/3235/4755kHz, 0600-0845 on 872/6025kHz. Chissena: 0845-1600 on 872/6025kHz. Chuabo: 1600-2000 on 4815kHz. Nyanja: 0355-0600 on 3370, 4895kHz, 0600-0700 on 4895kHz. Makonde: 0900-1200 on 6090, 9635kHz. Ajaua: 1430-1715 on 4895, 6090kHz, 1715-1725 on 4895kHz. Swahili: 1725-2030 on 3275/4895kHz.

SEYCHELLES. FEBA: L.P: Add Frequency Mgr: N.L. Brierley. Eng. in Charge(trs): D.F. Bacon.

SOMALIA. External Services: On 9585kHz: Arabic 1000-1100 and 1630-1930, *English* 1100-1130, Italian 1130-1200, French 1200-1230, Afar 1230-1330, Amharic 1330-1430, Swahili 1430-1530(also on 6095kHz), Galla: 1530-1630. Although this service is transmitted through the same facilities as the domestic service, programme schedules published by the Somali Broadcasting Service clearly indicate that these broadcasts are intended for listeners in neighbouring countries.

SWAZILAND; Current schedule of Swazi Radio: On 1376, 3223kHz 0400-0500(W), 1600-2200(Sat 2300); On 4985kHz 0500-0800, 1330(Sat 1000, Sun 1100)-1700; On 6155kHz 0500-0945(Sat 0900), 1330(Sat 1000)-1600(Sun 0500-1600). **English** schedule of Trans World Radio: 0430-0615 on 5055/9590kHz, 0615-0905 on 6070/11760kHz, 1630-1815 on 5055kHz, 1815-2105 on 3275kHz(Target areas are Southern Africa).

TOGO. Correct schedules are now: *R. Lomé:* 0530-0800 on 5047kHz, 0800-1700 on 7265kHz, 1700-2300 on 5047kHz. R. Lama-Kara(No. Togo): 0530-0830 on 3222kHz(10kW),

LAST MINUTE INFORMATION

0830-1630(10kW) and 1630-2230(50kW) on 6155kHz, 1630-2230 on 3222kHz(10kW).

ZAIRE: Add 4880kHz 10kW.

ZAMBIA: The ZBS is installing four Chinese built MW trs. Channels to watch for are 1205/1241/1313/1376/1394/1502/1554/1570/1586kHz as these were allocated to ZBS several years ago for provincial services.

NEAR & MIDDLE EAST

CYPRUS. BFBS: Amend 890kHz to read Zyyi.

IRAQ: Correct frequency for the 2000kW tr. at Babylon is 1038kHz – R. Baghdad now reported using 11725kHz for the main Arabic prgr. at 1100-1930.

UNITED ARAB EMIRATES. Sharjah Broadcasting Stations L.P: Gen.Mgr: Saeed Omara. **Stations:** 1535kHz 5kW, 1575kHz 50kW. **F.PL:** 300kW on 1535kHz from January 1977.

YEMEN ARAB REPUBLIC. Correct powers to read: *1000kHz 10kW and 1202kHz 60kW.

YEMEN (Peoples Dem. Rep.). A 200kW tr. is under construction.

ASIA

BANGLADESH. External Service: *English* 0445-0515 to Mid. East/India and Pakistan on 15410/17888/21685kHz, 1230-1300 to Europe on 11887/15268kHz. Arabic 0515-0545 to Mid. East on 15410/17888/21685kHz. 1340-1530 Sce to India and Pakistan on 11887/15268kHz(1340 Pushtu, 1400 Urdu, 1500 Punjabi).

CHINA (Taiwan). AFRTS, Taiwan, has not closed operations. Still active on 1550kHz and 100.1MHz, but the former 1570kHz and 100.9MHz no longer in operation.

KOREA (Rep). AFKN – **L.P:** Commander Lt.Col. M.G. McDonald. Dept.Capt(Air Force): John D. Cowan.

MALAYSIA. External Sce: Add *6175kHz* for Indonesian at 2200-2400, 0900-1600 and for English at 0625-0855. **Sabah:** The freqs given in the country section refer to the new MW plan to take effect in 1978. Present freqs are: 568(Tenom), 600(KK), .665(LD), 690(KK), 750(Tawau), 780(Sandakan), 800(Kudat), 830(LD), 930(Tawau), 1080(Sandakan), 1200(Kudat). Turan is the tr. location of KK on 1475kHz.

PAKISTAN. Home Services: *Karachi:* 0045-0415 on 3890/7095kHz, 0430-0600(Sun), and 0600-1145 on 7135/9645kHz, 1200-1345 on 7095, 4735kHz, 1400-1615 and 1630-1810 on 3890/4735kHz. *Islamabad:* 0045-0215 on 3330/5010kHz, 0215-0415 on 3330/5060(also on 5010 at 0215-0325 and 0350-0400), 0600*, 0700*, 0800*, on 5060/9545, 0830-0945 on 5030/6030(also on 7165 at 1400*), 0945-1000 on 5060, 1000-1005 on 5060/7165, 1005-1100 on 5060, 1200-1325 on 3965, 7165, 1300-1400 on 4020, 1400-1410 on 3330/4020/4785, 1410-1500 on 4020, 1500-1600 on 3330/4020/4785, 1600-1615 and 1630-1810 on 3330/4785kHz. *Peshawar:* 0045-0415(Sun 0445) on 3155kHz, 0600-1030 on 6080, 1100-1400 and 1415-1810 on 3155kHz. *Quetta:* 0045-0400(Sun 0345) on 3240, 0600(Sun 0400)-1030 on 5980, 1045-1345 and 1400-1600 on 3270kHz. *Rawalpindi:* 0045-0400(Sun 0500) on 3215, 0600-1100 on 5010, 1200-1410 and 1430-1810 on 3215kHz.

PHILIPPINES. R. Veritas Overseas Services: L.P: Pres: His Eminence Julio Cardinal Rosales. *Domestic Prgrs:* 2100-1500 on 860kHz in English and Pilipino. *Overseas Services:* 2×100kW(Siemens) and 1×50kW(Gates) SW trs at Malolos, Bulacan(G.C: 120.49E/14.51N).
Schedule of Services to Asia: *English* 0100-0200 on 11725/15280kHz, 1400-1500 on 9610/11800/15260kHz; *Indonesian* 2300-2330 on 9670/11725kHz, 1230-1300 on 9610/11800/15260kHz; *Mandarin* 0030-0130 on 11725/15280kHz, 1100-1130 on 9610/11800/15260kHz; *Sinhala* 0000-0030 on 11725/15280kHz, 1330-1400 on 9610/11800/15260kHz; *Tamil* 0200-0230 on 11725/15280kHz, 1500-1530 on 9610/11800/15260kHz; *Thai* 2330-2400 on 9670/11725/15280kHz; 1300-1330 on 9610/11800/15260kHz; *Vietnamese* 2200-2300 on 9670kHz, 1130-1230 on 9610/11800/15280kHz.
Beams: English and Mandarin 260°, Indonesian 206°, Sinhali/Tamil/Thai 270°, Vietnamese 276°.
Ann: "This is Radio Veritas Overseas, Quezon City, Philippines". Freqs are given at regular intervals – **V.** by QSL-card. Preferred reception code is SINPO – **F.PL:** Prgrs in Hindi, Japanese and Telugu – **Pub:** "Wavelength" monthly newsletter, prgr. and transmission schedule are available free, please write to Radio Veritas Overseas, P.O. Box 939, Manila, Philippines.

SRI LANKA. The SLBC has replaced 11835 by 11800kHz for its All Asia and South East Asia Service.

PACIFIC

AUSTRALIA. ABC: In spite of information given by the ABC about their Metropolitan and Regional sts it is reported that these have been replaced by ABC 1st, 2nd and 3rd networks(please refer to mediumwave table). **Privately Owned Stations:** 2GN has moved from 1380 to 1370kHz; 2LT has moved from 1370 to 1380kHz. *Add new st:* 3MP 1380kHz 5kW: 24h. Mornington Peninsula Broadcasters Ltd, 28 Beach Str, Frankston, Vic. 3199 – Mgr: R. Bear. Chief Eng: M. Korff.

GILBERT ISLANDS. There is a possibility that by late 1977 or early 1978 this country will have a new SW tr.

NEW ZEALAND. R. New Zealand Schedule(31/10/76-6/3/77): *To Pacific:* 1800-1950 on 9770, 1800-0050 on 11960, 2000-0430 on 15130, 0100-0600 on 11705, 0440-0715 on 9540, 0610 – close down on 11780kHz. *To Australia:* 0730-1030 on 6105kHz(if extended after 1030 6015kHz will be used).
DX-Reports should be accompanied by an International Reply Coupon, and RNZ is interested in hearing about the areas in which it is received. Operates a limited mailing list, but requests for information are welcomed.

NORTH AMERICA

CANADA. R. Canada International: *Russian* 1600-1630: delete S7245/9770kHz; *Forces*(to Europe) now 2158-2255; *English*(to No. America) now 2257-0100. *Portuguese*(to So. America) and Spanish(to So. America) 2300-2330 and 2330-2357 replace 15190 by 9535kHz. *Northern Canada Sce:* amend 1400-2300 to 1400-2400.
USA: It has just been announced that Mr. George Jacobs, Chief of the VOA Frequency Division has been appointed to Director of Research & Engineering, at the Board for International Broadcasting in Washington.

At BIB, Jacobs will be responsible for research, scientific, engineering and regulatory aspects of broadcasting and telecommunications and their relationship with political considerations that often influence international broadcasting. He is expected to play a key role in formulating policy and in the decisions and actions to be taken by the Board. In his new position Jacobs will represent the Board's technical interests with other government agencies, with Congress, with foreign governments, with international organizations, with research and broadcasting organizations in the private sector, and at international conferences.

CENTRAL AMERICA

DOMINICAN REPUBLIC. R. Clarín now observed regularly at 2100-0100 on 11700kHz(50kW) with Spanish prgrs and a 30 min broadcast in English at 2330-2400. Seems to be establishing an International SW service.

LAST MINUTE INFORMATION

SOUTH AMERICA

BRAZIL. R. Nacional de Brasilia is broadcasting a *DX-Programme* on Fridays at 1915 in Portuguese, at 2015 in German and at 2115 in English. Current schedule for the International Service: 1900-2200 on 15245kHz.
The National Service is on the air as follows: *On 980kHz:* 0800-1500(10kW), 1500-1800(300kW), 1800-0500(10kW). *On 6065kHz*(10kW): 0900-1300. *On 9665kHz*(10kW): 1900-0200. "A Voz do Brazil" at 2200-2230 relayed by all sts.

CHILE. Radio Mineria has changed its name to *"Radio Festival"*.

STANDARD FREQUENCY and TIME SIGNAL STATIONS

From February 1st 1977, broadcasts will be discontinued on some of the lesser-used frequencies at stations WWV and WWVH. The transmissions to be discontinued are 2.5, 20 and 25MHz from WWV, Fort Collins, Colorado, and 20MHz from WWVH, Hawaii. Services will continue with no changes on 5, 10, and 15MHz from both stations and on 2.5MHz from WWVH.

INTERNATIONAL WATERS

VOICE OF PEACE
Addr: P.O. Box 4399, Tel Aviv, Israel, or P.O. Box 2376, Nicosia, Cyprus.
L.P: Pres: Abe Nathan. Chief Eng: Bill Benson.
Station: M/V "Peace" lying at anchor between Cyprus and Israel:
1540kHz 50kW.
D.Prgr: 24h in **English.**
Ann: "From somewhere in the Mediterranean, we are the Voice of Peace".

RELIGIOUS ORGANIZATIONS

AWR (Adventist World Radio). Europe and Asia are considering the possibility of conducting series of test broadcasts from the DW relay base at Kigali, Rwanda. These broadcasts are likely to eventuate some time in the earlier part of 1977.

CO-OPERATING DX-CLUBS

Buenos Aires DX-Club has changed its address to: Casilla Postal 68, 1650 San Martin, Buenos Aires, Argentina.

Indian DX-Club has moved to a new address: 26/1 Northern Ave, Calcutta 700 030.

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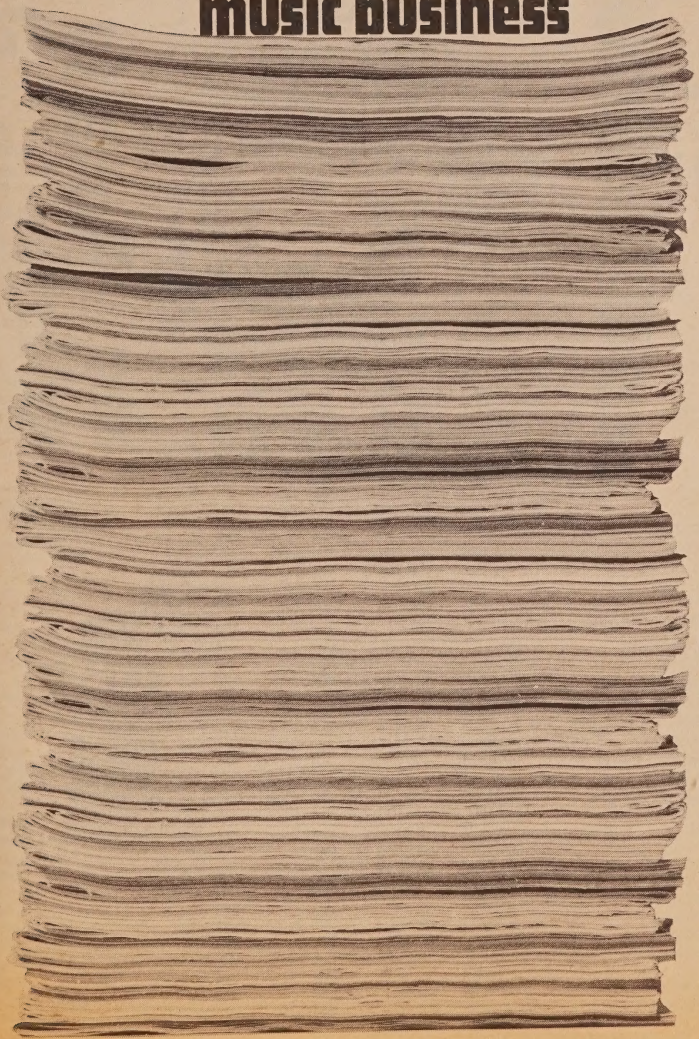

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SET COUNT BY COUNTRY

*)=Country with comm. radio and/or television.

Country	PO	R. Rcvrs	TV Rcvrs
Afars and Issas	150.000	15.000	3.500
Afghanistan	18.800.000	115.00	—
Albania	2.420.000	180.000	4.000
Algeria	16.280.000	1.020.000	450.000
*Andorra	25.000	6.600	—
*Angola	5.800.000	116.000	—
Anguilla	6.623	2.000	—
Antigua	70.000	16.000	15.000
*Argentina	25.050.000	6.125.000	3.925.000
Ascension Island	1.131	300	—
*Australia	13.500.000	13.400.000	3.925.000
Austria	7.516.000	7.164.080	1.905.288
*Azores	335.000	57.000	—
*Bahamas	204.000	96.000	—
Bahrain	240.000	90.000	31.000
Bangladesh	75.000.000	500.000	50.000
*Barbados	248.100	130.000	48.000
Belgium	9.800.000	3.990.000	2.650.000
Belize	140.000	70.000	—
Benin	3.030.000	—	—
*Bermuda	61.100	51.000	24.000
*Bolivia	5.470.000	430.000	70.000
Botswana	690.000	60.000	—
*Brazil	108.000.000	6.500.00	10.525.000
Brunei	151.000	22.500	12.500
Bulgaria	8.730.000	1.365.272	1.500.000
Burma	29.570.000	664.785	—
Burundi	3.900.000	105.000	—
Cambodia	7.630.000	100.000	—
Cameroon	6.400.000	235.000	—
*Canada	23.063.000	23.400.000	9.895.000
*Canary Islands	1.175.000	360.000	7.000
Canton Island	300	400	—
*Cape Verde Islands	292.000	36.000	—
Cayman Island	15.000	8.000	—
C. African Rep.	2.000.000	75.000	—
Chad	3.500.000	70.000	—
*Chile	10.410.000	1.800.000	710.000
Christmas Island	3.380	2.000	—
*Colombia	23.215.000	2.850.000	1.610.000
Comoro Islands	350.000	10.000	—
Congo (P.R.)	1.031.000	83.000	3.000
Cocos (Keeling) Islands	680	700	—
Cook Islands	21.400	7.050	—
*Costa Rica	1.920.000	150.000	155.000
Cuba	9.090.000	2.100.000	650.000
*Cyprus	520.000	200.000	90.000
Czechoslovakia	14.928.920	3.928.432	3.500.000
Denmark	5.083.391	1.675.000	1.636.834
Dominica	75.000	17.000	—
*Dominican Rep.	4.550.000	200.000	160.000
*Ecuador	7.000.000	262.000	500.000
*Egypt	36.410.000	5.250.000	1.000.000
*El Salvador	4.006.794	1.400.000	135.500
Ethiopia	27.240.000	210.000	20.500
Falkland Islands	1.905	600	—
Faroe Islands	41.500	11.600	—
*Fiji	575.000	300.000	—
Finland	4.727.664	2.179.093	1.713.732
France	52.515.000	4.100.000	14.500.000
Gabon	521.000	92.500	8.500
Gambia	510.000	61.000	—
*Germany (Fed. Rep.)	61.600.000	21.125.106	20.500.000
Germany (Dem. Rep)	16.850.125	6.166.800	5.180.000
Ghana	9.625.000	1.080.000	35.000
*Gibraltar	29.362	3.400	6.200
Gilbert & Ellice Isl.	60.000	8.200	—
*Great Britain	55.900.000	39.000.000	17.940.000
*Greece	9.000.000	3.300.000	1.165.000
Greenland	49.500.000	12.550	—
Grenada	116.000	22.100	—
Guadeloupe	346.000	25.000	15.000
*Guam	106.000	86.500	101.000
*Guatemala	5.600.000	265.000	150.000
Guyana	800.000	285.000	—
Guyana, French	61.000	15.000	5.000
Guinea, Rep.	4.310.000	120.000	—
Guinea, Bissau	520.000	11.000	—
Guinea, Equatorial	310.000	80.000	1.000(?)
Haiti	4.900.000	95.000	13.500
Hawaii	832.000	900.000	218.000
Holland	13.700.000	263.145	3.645.948
*Honduras Rep.	2.920.000	161.000	48.000
*Hong Kong	4.255.000	2.508.000	839.000
Hungary	10.505.000	3.500.000	2.495.000
Iceland	219.033	62.785	52.535
India	600.000.000	14.848.091	280.000
Indonesia	127.590.000	5.100.000	325.000
*Iran	32.015.000	2.100.000	1.720.000
Iraq	11.124.000	2.000.000	355.000
Ireland	3.090.000	875.000	600.000
*Israel	3.493.200	700.000	425.000
Italy	55.585.000	12.425.000	11.520.000
Ivory Coast	4.750.000	210.000	101.000
*Jamaica	2.010.000	555.000	111.000
*Japan	110.000.000	59.650.000	26.426.000
Johnston Island	398	450	350
*Jordan	2.620.000	531.000	130.000
Kenya	12.900.000	514.000	50.000
*Korea (Rep.)	33.450.000	3.110.000	2.500.000
Korea (P.D.)	15.440.00	—	—
Kuwait	994.37	502.000	540.000
Laos	3.100.000	—	—
*Lebanon	3.000.000	—	—
Lesotho	1.182.000	23.000	—
*Liberia	1.670.000	265.000	8.900
Libya	2.350.000	110.000	150.000
*Luxembourg	356.000	175.000	84.000
*Macau	300.000	61.000	—
Madeira	270.000	36.000	16.000
Malagsy Rep.	7.660.000	609.000	8.000
Malawi	4.900.000	130.000	—
Malaysia	12.000.000	600.000	488.453
Maldives	129.000	2.500	—
Mali	5.550.000	82.000	—
*Malta	320.000	80.000	69.000
Martinique	360.000	35.000	20.050
Marshall Isl.	25.000	10.000	—
Mauritania	1.260.000	82.000	—
*Mauritius	856.516	90.420	40.790
*Mexico	58.000.000	4.210.000	4.00.000
Midway Island	1.600	1.400	800
*Monaco	33.000	7.500	16.250
Mongolia (P.R.)	1.400.000	115.000	3.600
Montserrat	15.000	—	—
*Morocco	16.850.000	1.650.000	460.000
*Mozambique	9.000.000	225.000	—
Nauru	7.000	3.600	—
Nepal	12.300.000	82.000	—
*Neth. Antilles	240.000	150.000	36.000
New Caledonia	136.000	60.000	15.100
New Hebrides	96.532	15.000	—
*New Zealand	3.148.400	2.715.000	812.929
*Nicaragua	2.087.000	705.000	90.000
Niger	4.200.000	100.000	—
*Nigeria	80.500.000	5.100.000	105.000
Niue Island	4.300	775	—
Norfolk Island	1.400	1.200	—
Norway	4.000.000	1.288.340	1.058.476
Oman	750.000	—	15.000
Pakistan	68.210.000	1.200.000	350.000
*Panama	1.630.000	270.000	186.000
Papua & New Guinea	2.625.000	120.000	—
*Paraguay	2.575.000	180.000	55.000
P.R. of China	805.000.000	?	?
*Peru	15.380.000	2.067.506	500.000
*Philippines	41.400.000	1.875.000	?
Poland	34.000.000	6.000.000	6.875.000
*Portugal	8.900.000	1.525.000	722.678
*Puerto Rico	2.800.000	1.765.000	631.000
Qatar	175.000	—	34.000
Reunion	490.000	95.000	36.700
*Rhodesia	6.100.000	255.000	68.700

Continued on page 478

ANTARCTICA – THE

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continent, from which the following photos
been

First meeting with Emperor Penguins of the crew from the supply ship "Thala Dan".

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Denmark

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USA

Set Count by Country *(from Page 475)*

Country	PO	R. Rcvrs	TV Rcvrs
Romania	22.000.000	2.353.786	2.854.779
Rwanda	4.115.000	70.000	—
*Samoa (American)	31.700	27.500	5.700
*Samoa (Western)	180.000	30.000	—
São Tome	100.000	20.000	—
Saudi Arabia	8.100.000	260.000	130.000
Senegal	4.300.000	290.000	2.000
Seychelles	60.500	17.000	—
Sierra Leone	3.500.000	300.000	8.500
Singapore	2.200.000	355.754	293.461
Solomon Islands	180.000	11.000	—
Somalia	3.102.000	69.000	—
*South Africa	17.600.000	2.500.000	600.000
*Spain	32.200.000	8.190.000	6.640.000
Sri Lanka	13.650.000	540.000	—
St. Helena	5.150	860	—
St. Kitts	68.000	—	—
St. Lucia	120.000	81.500	—
St. Pierre et Miquelon	5,850	2.200	1.730
Sudan	17.320.000	120.000	70.000
*Surinam	410.000	180.000	37.500
Swaziland	475.000	60.000	—
Sweden	8.208.442	3.000.000	2.959.757
*Switzerland	6.480.000	2.091.788	1.790.661
*Syria	7.400.000	880.000	230.000
Tahiti	132.000	72.000	14.000
*Taiwan	16.005.000	1.800.000	2.927.416
Tanzania	14.750.000	300.000	—
*Thailand	41.500.000	5.360.735	761.015
Trinidad & Tobago	1.075.000	270.000	94.000
Tristan da Cunha	300	100	—
Togo	2.165.000	52.000	—
Tonga	100.000	15.000	
Trust Terr. (Pacific)	115.100	8.750	3.050
Tunisia	5.572.000	287.841	191.043
Turk & Caicos Isl.	7.200	3.000	—
Turkey	40.197.669	4.210.063	455.000
*Uganda	11.161.000	250.000	71.000
*United Arab Emirates	220.000	55.000	26.000
*United States	214.708.300	(1.752 per 0/00 persons)	115.000.000
Upper Volta	5.800.000	105.000	1.150
*Uruguay	3.024.000	1.600.000	355.000
USSR	252.000.000	64.000.000	64.000.000
Vatican State	1.000	—	—
*Venezuela	11.630.000	2.075.000	1.300.000
Vietnam (Dem. Rep.)	59.000.000	—	—
*Virgin Islands (Am.	81.000	76.000	31.500
*Virgin Islands (Br.)	11.000	6.500	—
Yemen Arab Rep.	6.500.000	90.000	—
*Yemen (P.R.)	1.625.000	100.000	31.500
Yugoslavia	21.322.000	3.516.362	3.071.620
Zaire (Rep. of)	24.220.000	108.000	7.200
Zambia	4.750.000	110.000	22.600

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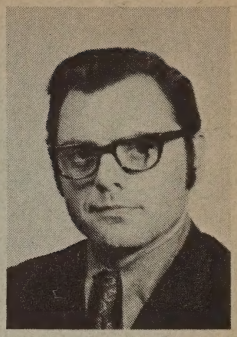
THE PROLONGED SUNSPOT MINIMUM

Is another About to Begin?



by Theodore J. Cohen, PhD, USA

Introduction

There exists in the historical record of solar activity a 70-year period between 1645 and 1715 during which time apparently few, if any, sunspots were observed. Called the Prolonged Sunspot Minimum, or the Maunder Minimum (after E. W. Maunder, who described the Minimum in 1890), this anomaly, if it did occur, could have important implications with respect to our attempts to predict future sunspot activity, and hence, to our attempts to predict future radio reception conditions on the shortwave bands.

In this article we will examine some of the evidence supporting the existence of the Prolonged Sunspot Minimum. We conclude that the Minimum probably did occur, and that a similar, extended period of low sunspot activity may occur during the remainder of this century. As such, during the next 30 years or so, shortwave listeners may encounter reception conditions at the higher frequencies which, at best, are no better than those observed during the past five years.

The Ionosphere

We begin our discussion with a review of the basic principles governing the propagation of shortwave radio signals.

The world-wide transmission of radio signals on the shortwave bands is possible because there exists in the earth's atmosphere an electrified region called the **ionosphere** which bends, or refracts, radio signals back to earth. This electrified region is produced by ultraviolet radiation from the Sun. During periods of high sunspot activity, the ultraviolet radiation reaching the atmosphere increases, and the ionosphere is "stronger". This results in better reception on the higher frequency bands (17, 21 and 26MHz). Conversely, during periods of low sunspot activity, the ionosphere is "weaker", and reception is better on the lower frequency bands (2-7MHz, and 9, 11 and 15MHz). Thus, the sunspot count is an indication of the general level of ionization in the earth's atmosphere, and of the frequency bands which can be used for effective shortwave broadcasting.

It is well known that sunspot occurrence rises and falls over an **approximate** 11-year cycle. The maximum sunspot count for each cycle, however, varies considerably, as we shall see in the next section.

The Prolonged Sunspot Minimum

Records of early sunspot activity dating to the year 1600 were intensively studied during the 1950's by the eminent scientist D. J. Schove. His findings, published in 1955 and augmented with observations made during the last 20 years, are shown in *Figure 1*. As seen, Schove claims that from around 1645 to 1715, the annual mean sunspot number at sunspot maxima never exceeded 60, and that for one cycle it was no higher than 30. This period is called the Prolonged Sunspot Minimum, and was described in the scientific literature by E. W. Maunder in 1890.

Additional evidence for the lack of sunspot activity between 1645 and 1715 comes from records of auroral borealis activity. A relationship exists between sunspot activity and auroral displays, and so, records of auroral observations can give indications of relative sunspot activity for these periods where no sunspot records exist.

Historical scientific catalogues confirm that few auroral displays were observed during the Prolonged Sunspot Minimum. In fact, there were less than 80 auroras observed between 1645 and 1715, far fewer than were reported in the 70-year periods before and after the Minimum. Further, for 37 years of the 70-year Minimum, no auroras were observed. Even the noted astronomer Edmund Halley, for whom Halley's Comet is named, had to wait most of his life to see an auroral display. When he finally observed one in the year 1716, Halley wrote a classic paper on his observations.

It is well known that sunspot occurrence rises and falls over an **approximate** 11-year cycle. The maximum sunspot count for each cycle, however, varies considerably.

Recent Studies

Because of interest in the Prolonged Sunspot Minimum, it is again the subject of intense scientific investigations. John A. Eddy of the United States National Center for Atmospheric Research recently published the results of a study of the Prolonged Sunspot Minimum, and concluded that it did occur. Among other things, Eddy argues that astronomers of the 17th century had the instruments, knowledge, and ability to detect even small sunspots, and as such, the Minimum cannot simply represent a lack of observations during this period. After all, as Eddy

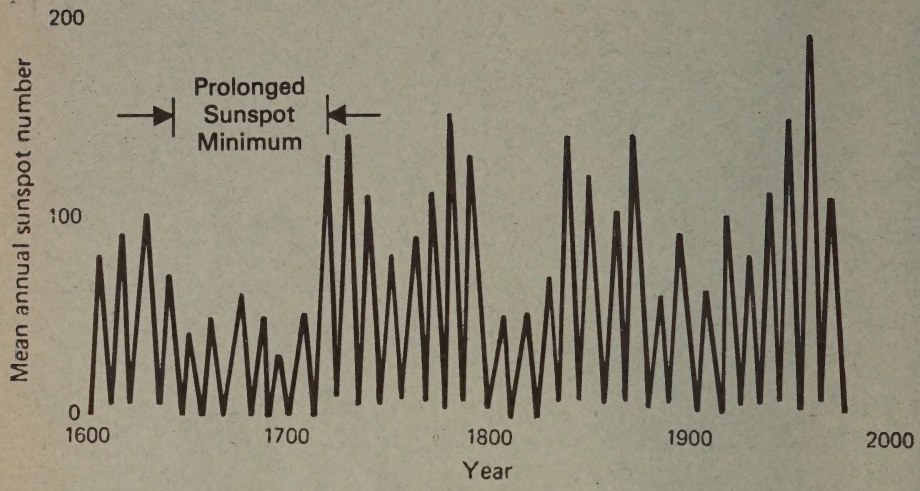


Figure 1 – Mean annual sunspot numbers (schematic representation based on data published by Schove, 1955).

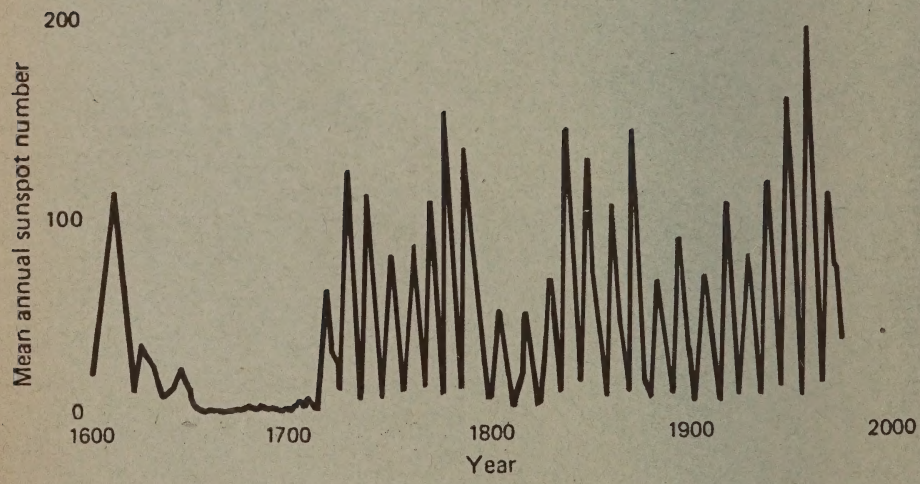


Figure 2 – Mean annual sunspot numbers (modified after Schneider and Mass, 1975).

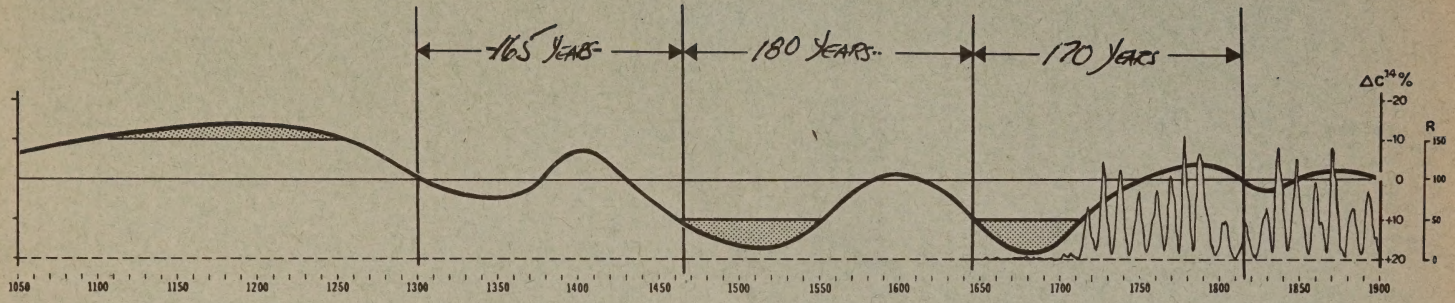


Figure 3 – Variation in the concentration of C^{14} as a function of time, together with mean annual sunspot numbers since 1650 (modified after Eddy, 1976).

points out, it was during the Prolonged Sunspot Minimum that astronomers discovered the first division of Saturn's ring (1675) and found five of Saturn's satellites (1655-1684).

Sunspot data collected by Eddy, together with that amassed by M. Waldmeier of the Swiss Federal Observatory at Zurich, Switzerland, have been summarized by two American scientists, S. H. Schneider and C. Mass, and are shown in *Figure 2*. The almost-total absence of sunspot in the late 1600's is clearly evident, with activity during this period even lower than that postulated by Schove. According to the results shown in *Figure 2*, mean annual sunspot numbers during the Prolonged Sunspot Minimum never exceeded 10.

Based on the studies of Schove and Eddy, we conclude that the Prolonged Sunspot Minimum probably did occur and that the period between 1645 and 1715 was marked by a pronounced lack of sunspot activity.

Other Extended Sunspot Minima

With one prolonged period of low solar activity identified, we are led to search for similar periods in the historical record. Unfortunately, since the telescope did not exist before 1611, records of scientific activity become increasingly scarce for the years prior to that time. Thus, we must depend on indirect evidence for additional information on sunspot activity. One such piece of evidence is record of C^{14} (Carbon 14) in tree rings.

Scientists believe that C^{14} is formed by radiation from outer space which impinges on the atmosphere. During periods of high sunspot activity, this radiation decreases. On the other hand, during periods of low solar activity, the radiation increases. Thus, variations in the relative abundance of C^{14} with time, as measured from tree rings, gives an indication of variations in solar activity.

Figure 3 shows the variation of C^{14} between the years 1100 and 1900. If we consider a variation of 10% or more in the C^{14} level to be significant, three solar anomalies appear to have taken place during this 800-year period. The first, already identified from the sunspot and auroral records, and seen clearly in the C^{14} record, is the Prolonged Sunspot Minimum (1645-1715). Another prolonged minimum in solar activity appears to have occurred between 1465 and 1550, while a long period of high solar activity apparently occurred between 1100 and 1250. There is some evidence to indicate that minor periods of low solar activity also occurred between 1300 and 1375, and the early 1800's, where the sunspot record confirms our findings. Further, that Schove, using auroral records postulated periods of low solar activity to have occurred from 1326 to 1351, from 1468 to 1516, and from 1791 to 1816, lends credence to the results obtained from the C^{14} data. It appears, therefore, that long periods of low solar activity recurred every 170 to 180 years.

The period between 1645 and 1715 was marked by a pronounced lack of sunspot activity.

Will We Experience Another Prolonged Sunspot Minimum?

Though broad in nature, positive deviations in C^{14} content, which represent periods of low solar activity, seemingly occur every 170 to 180 years. Up to now the occurrence of such a long-term undulation in solar activity was considered speculative. However, P. R. Lintz and this writer, in a recent study using sunspot data and sophisticated data analysis techniques, found that major characteristics of the cycle apparently **do** repeat every 170 to 180 years. Thus, if we consider the last period of low solar activity to have occurred from about 1795 to 1835, the Sun would again exhibit low sunspot activity over the next 30 to 40 years. Specifically, as seen in *Figure 4*, the maximum expected mean annual sunspot numbers for the solar maxima expected in 1982 and 1995 may only be in the mid to high 40's, while the maximum expected in 2009 may not exhibit mean annual sunspot numbers greater than 70. Further, mean annual sunspot numbers as high as those observed in the solar maximum of 1969 (on the order of 110) may not be observed again until the year 2018. It appears, therefore, that another prolonged period of low sunspot activity is about to begin . . . one that could extend into the first part of the next century.

Expected Reception Conditions

There is no question that shortwave reception will pose a challenge in the years ahead. While solar activity during the remainder of this century will probably not drop to the low levels thought to have occurred between 1645 and 1715, conditions on the high-frequency bands will be depressed. Solar maxima expected in 1982, 1995 and 2009 will be relatively weak compared to the maxima observed in 1937, 1947, 1958 and 1968, and at best, conditions may only equal those experienced in the early 1970's. Even then, however, the 21 and 26MHz bands often supported worldwide radio propagation, with the 17MHz band frequently "open" to some part of the world almost 24 hours a day during the summer months.

During periods of sunspot cycle minima, which are expected around 1977, 1988, and 2002, the usable high-frequency spectrum will shrink to about half of what is available during solar maxima. During these minima, the 2-7MHz bands, as well as the 9, 11, and 15MHz bands, will provide excellent shortwave reception. This is especially true of the 2-7MHz bands which, during periods of low sunspot activity, and especially after sunset during the late fall, winter, and spring months, will permit good reception of stations up to several thousand miles away. However, since increasing numbers of shortwave broadcasters will make use of the bands below 15MHz during periods of low sunspot activity, expect extreme congestion and heavy interference on these bands in the years ahead.

Conclusions

Evaluation of the historical sunspot and auroral records suggest that the Prolonged Sunspot Minimum, a period between 1645 and 1715 when sunspot activity was unusually low, probably did occur. Further, other extended periods of low sunspot activity may have occurred between 1300 and 1375, and between 1465 and 1550, while the sunspot record shows a period of depressed solar activity to have occurred between 1795 and 1835. With a recent study of the sunspot cycle now suggesting that the

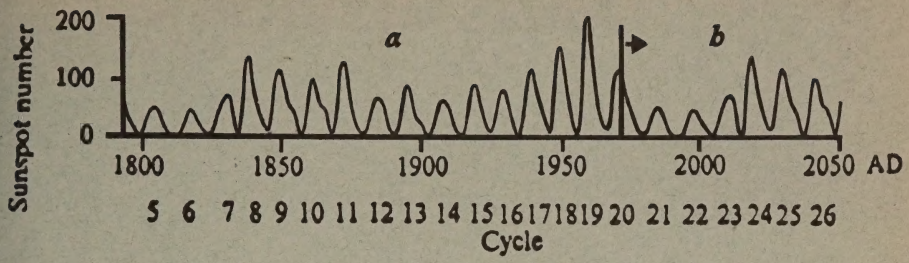


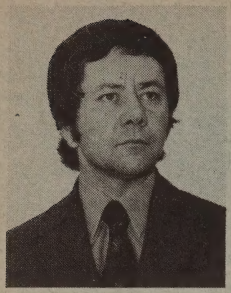
Figure 4 – Mean annual sunspot numbers: a, observed (1793-1971); b, predicted (1972-2050). (Modified after Cohen and Lintz, 1974).

major characteristics of the sunspot cycle repeat every 170 to 180 years, the possibility exists that another prolonged period of depressed solar activity will occur between 1977 and 2014.

With solar activity expected to be at moderately low levels throughout the remainder of this century, reception conditions are generally expected to be more satisfactory on the lower frequency bands. In particular, we expect most of the world's high-frequency broadcast efforts to be concentrated between 6 and 15MHz, though at solar maxima, activity may extend to the 17 and 21MHz bands. Regardless of how much of the high-frequency spectrum is available to shortwave broadcasters in the years ahead, however, we can be sure that long periods of low solar activity expected during the remainder of this century will challenge the skill and patience of the shortwave listener.

It appears, that another prolonged period of low sunspot activity is about to begin...one that could extend into the first part of the next century.

We can be sure that long periods of low solar activity expected during the remainder of this century will challenge the skill and patience of the shortwave listener.



OFF-BEAM TRANSMISSIONS

by P. V. D. M. Martins,
Senior Engineer, Radio RSA

Annually shortwave broadcasters receive letters from astonished listeners informing them that they have been able to receive programmes from distant broadcasting stations although these broadcasts were intended for an entirely different listening area. A broadcast from Europe directed to the USA for instance, may be received in Southern Africa; or alternatively a broadcast from Southern Africa directed to the USA may be heard by listeners in the United Kingdom or in Australia. It is only natural that many listeners are puzzled by this phenomenon and wish to know how this is possible.

To fully understand this, one should have some concept of the propagation medium through which the radio signals have to traverse and the functioning of transmitting antennae used by broadcasters.

Long distance broadcasting in the high frequency bands is made possible purely by virtue of the refracting ability of the ionosphere. Under favourable conditions a radio transmission reaching the ionosphere will be bent earthward and will return to earth at a great distance from the transmitting station. Radio transmissions that follow such a path through the ionosphere and back to earth are known as sky wave transmissions. The mechanics of sky wave propagation are complex, the dominant physical phenomenon being refraction and not reflection, as commonly referred to. The ionosphere consists of a region in the upper atmosphere where free electrons are produced by the ionizing effect of ultraviolet light and X-rays from the sun. The ionized region commences at approximately 60KM above the surface of the earth and extends to approximately 420KM. Due to radiation from the sun, primarily ultraviolet radiation, the height and density of the ionosphere does not remain constant, but varies significantly with the time of day, season of the year and the approximate eleven-year cycle of sunspot activity. The ionization density of the ionosphere tends to peak at various heights above the earth due to differences in the physical properties of the atmosphere at different heights. The levels at which the electron density reach a maximum are termed layers and these are identified as D, E, F1 and F2 layers in order of increasing height and ionization density. (Refer to *Figure 1*.) The number of layers, their heights and their ionization or electron density vary both geographically and with time.

A broadcast from Southern Africa directed to the USA may be heard by listeners in the United Kingdom or in Australia.

The most significant for long distance broadcasting is the F1 and F2 layers which, at night, combine to form one layer. A radio wave coming up from the earth's surface will first enter an area of comparatively low density and eventually enter an area of greater electron density where it will meet an adverse force presenting some opposition to its travel. The term refraction stems from the fact that the direction of travel of the wave is changed in its course after entering a medium differing in density from one through which it has already passed. The wave will thus be turned away from its original path and, providing the density of the medium and the frequency are suitable, a point will be reached where the wave will be turned from its original route and eventually will be completely turned and leave the ionosphere at a similar angle as that of entry.

The descending wave will reach the earth's surface at some distance from the transmitting station leaving a skip distance between the transmitting station and point of reception. Within this distance the only signals that can be received are those due to the direct wave travelling along the earth's surface. There will thus be an area of no reception – usually referred to as the silent zone as the ground wave from the transmitting station is restricted to relatively short distances as compared to the sky wave. When the descending wave strikes the surface of the earth, it is reflected with an angle of reflection equal to the angle of incidence, the reflective ability depending upon the texture of the particular area of the earth's surface. Sea water, for instance, is a good reflector, followed by pastoral land, while desert areas may be regarded as poor, the reflecting ability being determined by different conductivity values. The wave will thus travel up again to the ionosphere, be refracted again and return to earth still further away, giving rise to another zone of silence. In this manner radio waves may travel over large distances in a number of hops.

The maximum distance for one hop is approximately 4000KM. The distance of the first hop from the transmitter and the consecutive hops will depend on the frequency of the transmission, the

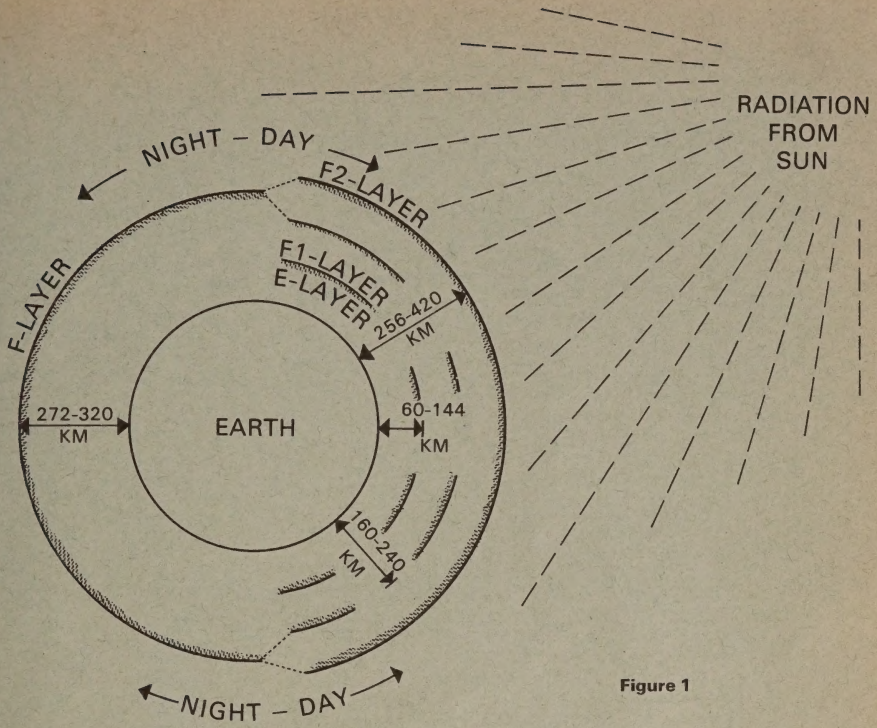


Figure 1

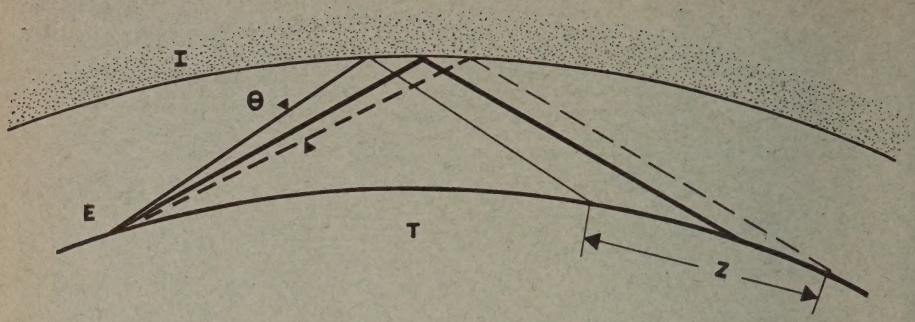
angle at which the radio wave enters the ionosphere and the ionization density of the ionosphere at the various points of refraction. For long distance broadcasting the antenna has to be designed so as to permit a low angle of radiation, approximately 12 degrees, while a domestic service broadcast will have a higher angle of radiation, approximately 60 degrees. The antenna is designed in such a manner that the beam width of the radiated waves in the horizontal and vertical plane will permit reception over an area or areas as required by the broadcaster. The width of the first reception zone or depth of the reception area will be determined by all the factors thusfar mentioned and for an average long distance broadcast would probably be 800 to 1500KM. The width of the second reception zone and consecutive reception zones will increase, the width of the silent zones decreasing correspondingly.

It is not strictly correct to assume that no signals can be received in the silent zones, but the signal intensity in these areas is very low and for practical purposes may be neglected. Finally, it should be noted that the ionosphere sets upper and lower limits of frequency usage. The higher frequencies will tend to penetrate the ionosphere while the lower frequencies will be absorbed. The frequency selection must be between these limits so that desirable signal levels are obtained in the respective listening areas of the broadcasting station.

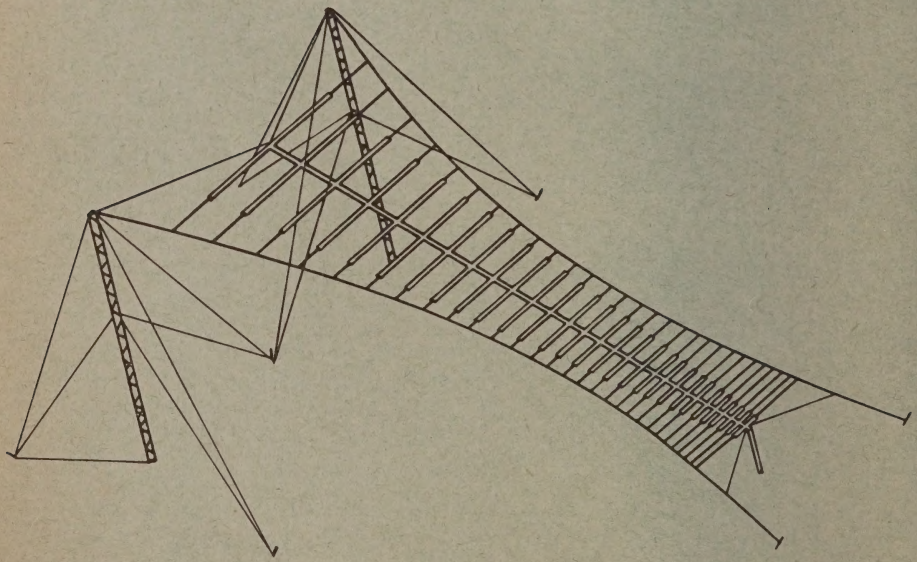
Now that we have briefly discussed the mechanics of the ionosphere, we are ready to take a closer look at the antennae used by broadcasters. Before entering into the subject, it should be stressed that the functioning and design of antennae are extremely complex and involve many mathematical calculations beyond the scope of this article. Only the basic concepts will thus be dealt with in an endeavour to explain how transmissions may be heard in listening areas for which they were not intended.

A transmitting antenna may be defined as an electrical conductor of specific design. The antenna acts as a load to the transmitter's radio frequency or range of frequencies. As it is an electrical conductor it is endowed with distributed inductance and capacitance and consequently behaves as a resonant circuit. Its characteristics are such that it serves as an outlet for the high frequency energy produced by the transmitter.

The function of directional antennae is to concentrate the available high frequency power towards the ionosphere in such a manner that the radiated power may take full advantage of the propagational properties of the ionosphere, so that the optimum reception is ensured in the respective listening areas of the transmitting station. The directive properties and antenna gain are therefore of prime importance to the long distance broadcaster. It is desirable that the total high frequency power produced by the



Refraction from ionosphere
E=Broadcasting transmitter
T=Earth
Z=Reception zone
θ=Zenithal beamwidth



Log – periodic antenna

transmitter be directed by means of the antenna system to the intended listening area or areas, rather than being scattered in all directions.

A large number of antenna configurations are available to the broadcaster. At present the most popular for long distance broadcasting seems to be the curtain antenna, while for short distances the log-periodic is favoured. The curtain antenna has a concentrated beam, with low angle of radiation, while the log-periodic generally exhibits a much wider radiation pattern, both in the horizontal and vertical plane with relatively high angle of elevation. The former can be slewed electronically so that the beam may be directed to a new target area. One disadvantage of the curtain antenna is that it is frequency conscious and more than one antenna is thus necessary for the various frequency bands used by the transmitting station. Designs utilizing folded dipoles which will operate on up to four adjacent broadcasting bands are available. The log-periodic antenna on the other hand is "frequency-independent" and can operate on any number of frequencies according to design.

The curtain antenna has a concentrated beam, with low angle of radiation, while the log-periodic generally exhibits a much wider radiation pattern with relatively high angle of elevation.

Before discussing the principle of operation of directional antennae, it is necessary to consider the resonant halfwave antenna termed either a dipole or doublet, which is one of the simplest and most fundamental of radiating systems. The dipole consists of two collinear conductors and is the unit from which many more complex forms of antennae are constructed. Practically all antennae used by broadcasters are related to the dipole. The collinear conductors are fed at the centre, coupled to the transmitter by means of an appropriate feeder arrangement. The feeder and antenna must have specific lengths so that relatively negligible power is lost in the feeder, permitting maximum radiation by the antenna. The length of the dipole antenna must be comparable to the wavelength of the frequency to be radiated. From the viewpoint of economics it is desirable to use the shortest possible elements, as this will be a saving when considering costs of masts, available land, materials and installations. The shortest paractical length is almost equal to half the wavelength of the radio wave. This may be best understood by considering that the electric charge during one cycle of oscillation of the frequency used, will traverse the length of a half-wavelength dipole in both directions. The electric charge therefore travels twice the length of the half-wavelength dipole, the distance travelled thus being equal to one wavelength. In practice however, the dipole elements are slightly shorter than the theoretical length due to end "effects". The relation between frequency and wavelength is apparent from the following formula: $\lambda = 300\,000\,000/f$ where λ is the wavelength in metres and f the frequency in Hertz. This stems from the fact that radio waves travel at the same speed as light, namely 300 000 000 metres per second.

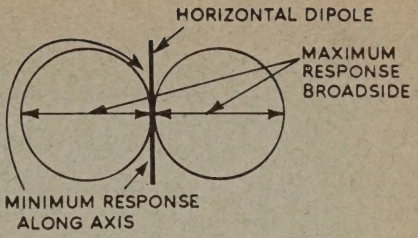


Figure 2
Dipole radiation pattern

The half-wavelength dipole may be considered a bi-directional antenna. Its radiation pattern is not uniform in all directions but varies with the angle with respect to the axis of the antenna wire. The radiation is most intense in directions perpendicular to the wire and zero along the direction of the wire with intermediate values at intermediate angles. (Refer to *Figure 2*.) The radiation pattern is a representation of the directivity of the antenna. Various types of radiation patterns may be obtained by combining individual dipoles into an array. The basis for all directivity control in antenna arrays is by means of wave interference. By feeding power to individual dipoles simultaneously, it is possible to make the radiation from the elements reinforce one another in a single direction so that a beam is formed. In other directions the radiation tends to cancel so that a power gain is obtained in one direction at the expense of radiation in other directions. At present this is the most straight forward method known to control radiated power.

Curtain antennae are made up of individual half-wavelength dipoles. The dipoles are strung end to end in the horizontal plane so that they all lie on the same straight line. Identical dipoles are strung above or below the first row at half-wavelength intervals. When power from the transmitter is fed into the dipoles so that they carry co-phased current, in other words, so that their individual radiations are in phase, the radiation from the array will cancel at a point vertically above the array; at a distant point in the horizontal plane, at right angles to the line of the array the effect of the individual dipoles will be additive, giving rise to increased directivity. The horizontal width, i.e. number of bays of the array, determines the horizontal (azimuthal) beamwidth of the high frequency radiated power, while the number of rows in the vertical plane, together with the mean height of the array above ground determines the angle of elevation and vertical (zenithal) beamwidth.

A single curtain of dipoles fed with the appropriate feeder arrangement from the transmitter, in such a manner that all the dipoles are electrically in phase, will be bi-directional, with two beams 180° apart. By hanging an identical curtain of dipoles, a quarter wavelength behind the radiator curtain, the radiated waves from the radiator curtain will travel towards the second curtain and be reflected back towards the radiator curtain. The reflected waves will reinforce the waves from the

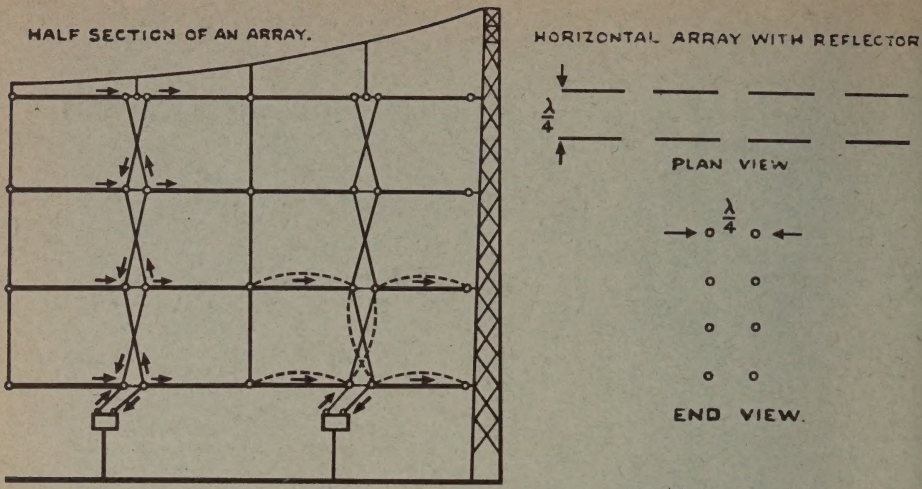


Figure 3 – Curtain antenna – arrows indicating co-phased currents.

radiator curtain in the forward direction towards the listening area, and cancel in the backward direction. The reflector curtain may also be provided with a feeder so that tuning is possible to minimize radiation in the backward direction. It is then also possible to reverse the direction of the beam by 180° by connecting the transmitter to the reflector curtain, so that it will act as the radiator while the other curtain then acts as the reflector.

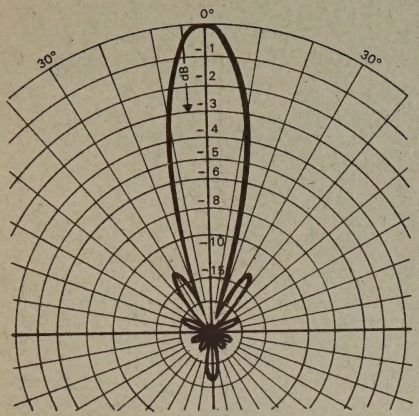
Half section of a typical antenna array used for shortwave broadcasting is shown in *Figure 3*. The curtain is made up of four bays, each consisting of four individual half-wavelength dipoles stacked at half-wavelength intervals above one another. Identical reflector dipoles are spaced a quarter wavelength behind the radiator curtain, each curtain containing 16 individual dipoles.

The rear curtain of dipole reflectors may be replaced by a grid reflector, but reversing of the radiation pattern is then not possible. The feeder arrangement at the base of the antenna is usually arranged in such a manner that the phase of currents fed to each of the half sections of the curtain, that is, two bays, may be advanced or delayed in relation to that being fed to the adjoining bays. The effect of this is to slew the radiated beam either to the left or right of the normal direction. This is achieved by increasing the length of feeder from the transmitter to one half of the curtain while correspondingly decreasing the length of feeder to the other half. In this manner it is possible to electrically slew the azimuthal pattern through ± 15° to ±30° (Refer to *Figures 4, 5 and 6.)*

In the main direction of transmission the curtain antenna under discussion will have a power gain which is about 100 times as much as that obtained with a half-wavelength dipole. For simplicity, engineers prefer to use the term decibel when expressing gain. An antenna which increases the power 100 times will be referred to as an antenna with gain of 20 dB. If a 250 kilowatt transmitter were used in conjunction with the said antenna, the power would be amplified 100 times and the end result is that 25 million watts of power is radiated in the direction of the main target area. For the purpose of calculation of radiated power engineers prefer to talk of lobes. A three dimensional representation of a main radiating lobe is given in *Figure 7*. The perimeter of the main lobe is referred to as 3 dB points or half-power points. The main radiating lobe will reach into the ionosphere at a low angle of elevation, and as mentioned under the discussion on propagation, will be refracted back to earth. The reception zone reached in this manner will be the main target area and is the area where maximum signal level is experienced.

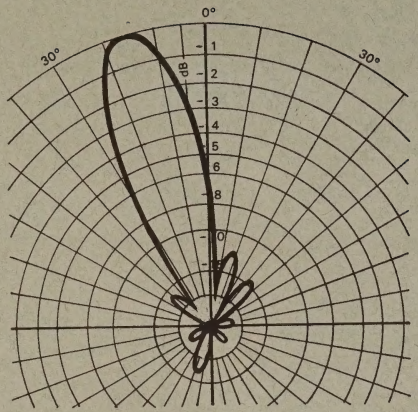
An antenna which increases the power 100 times will be referred to as an antenna with gain of 20 dB.

Although time and care is taken when designing and constructing antennae to ensure that maximum radiation is directed in the direction of the main lobe, power, at considerably reduced levels, is also radiated in a sideward direction and in a direction directly opposite to the main lobe. In the normal condition, that is when the curtain antenna is radiating straight ahead with no slewing introduced, the sideward and backward radiated lobes will be small. (Refer to *Figure 4*.) When maximum slewing is introduced these radiations will increase and result in larger side lobes. (Refer to *Figure 6*.) The power in the side lobes can reach up to 25 per cent of the



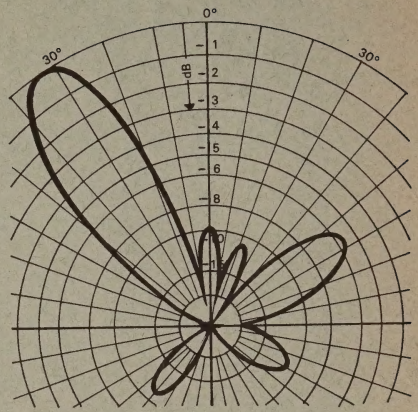
17.8MHz, slew 0°

Figure 4



17.8MHz, slew 15°

Figure 5



17.8 MHz, slew 30°

Figure 6

Plan view azimuthal radiation patterns 0° through 30° slew.

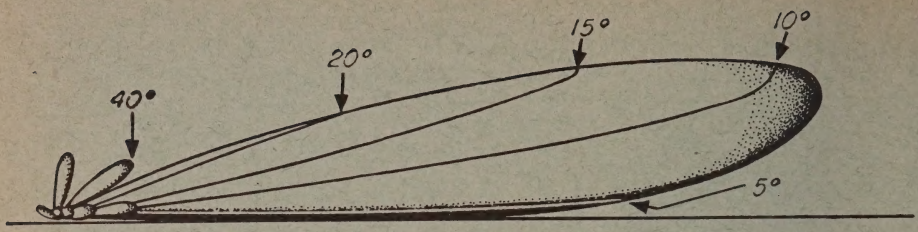


Figure 7 – Three dimensional radiation pattern.

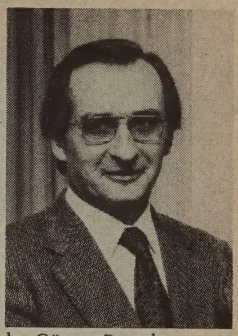
power of the main lobe, whereas the power in the back lobe could reach up to 10 per cent of that radiated in the main lobe. As in the case of the main lobe the side lobes, ionospheric conditions permitting, will propagate favourably. It is then possible for listeners living in areas touched by the side or backward lobes, to receive a transmission even though it is not intended for their specific area. The main lobe may also provide reception to listeners in more than one area. For example, a transmission from South Africa directed to Europe, depending on the time of day, etc., may reach Europe on the third hop, providing simultaneous reception for listeners in Central Africa on the first hop and North Africa on the second hop. Any one of these areas may be the target area at the time of broadcast, with the other listeners joining in, or alternatively the broadcasting station may take advantage of this phenomenon and broadcast programmes simultaneously to all three listening areas. Similarly, a transmission from Europe to North Africa may be heard in Southern Africa, or alternatively, the side

The side lobe of a transmission from the United Kingdom directed to North America and the Caribbean may provide reception for listeners in Africa.

lobe of a transmission from the United Kingdom directed to North America and the Caribbean may provide reception for listeners in Africa.

Reception of transmission received in the off-beam areas could easily suffer interference due to lack of signal strength and in certain instances may be completely suppressed by a nearby station or more powerful station operating on the same frequency. It does, however, permit one to listen to broadcasts directed to other parts of the world and this in itself makes listening to the world all the more interesting.

SATELLITE AGE



by Günter Roessler
Technical Director,
Deutsche Welle

After a century of wireless communications and over a decade of satellite usage, radio and television have now entered the Satellite Age. Almost daily we receive reports on the launching of another telecommunication satellite, that a new link has been established, that the Olympic Games were able to be followed by hundreds of millions of viewers all over the world, thanks to satellites, and that even broadcasting satellites are planned. Well-sounding names are chosen, names that bewilder: Intelsat, Statsionar, Symphonie, Anik, SITE, Arcomsat, Westar and many others.

On the 25th April 1976 the DEUTSCHE WELLE opened up a satellite link between Germany and its relay station in Kigali, Rwanda, as a high quality programme feed. Transmissions however are purely tests; they do not take place daily and are also limited to certain times of day. The new link serves for experimental purposes, to find out what advantages amd quantity improvements are possible for listeners to shortwave relay stations. The aim is continuous quality improvements but in the right relationship to cost and effort. For that link the German-Franco Symphonie satellite was chosen. Two of these satellites working at 4/6GHz are at present in orbit, the first of which was launched on the 18th December 1974. To receive the two to six sound channels an earth station with a diameter of 4.50mtrs has been installed in Kigali. For the uplink the earth station with a diameter of 16mtrs is located in Raisting (Bavaria), and operated by the German Bundespost. Symphonie is an experimental telecommunication satellite for earth stations with a diameter of between 3mtrs and 16mtrs.

Under the name of SITE (Satellite Instructional Television Experiment) the multipurpose US-satellite ATS6 was used in India for testing a major educational television project.

The new link serves for experimental purposes, to find out what advantages and quantity improvements are possible for listeners to shortwave relay stations.

Twelve-thousand television sets with antennas of 3mtrs in diameter have been distributed over 5000 locations in India and are linked together to form an educational television network, by direct reception of the ATS6 satellite on 860MHz. The test programme lasted twelve months and was intended to show the advantages of satellite systems. Similar tests with the ATS6 were carried out in Colorado, USA, and at the moment in Brazil.

As early as 1972 the first Anik satellite using 4/6GHz was launched in Canada. This enabled Canada's television stations in the huge northern regions to receive by rather small antennas the actual television programmes for direct relaying. Anik is now followed by a 12/14GHz test satellite called CTS which allows direct reception by very small antennas, even as small as one meter in diameter.

The Soviet Union (USSR) is planning to launch special television satellites, with the name of Statsionar, for distribution of television programmes to many terrestrial stations in the USSR, but also to foreign countries (700MHz).

Last but not least the network of Intelsat-satellites for world-wide telecommunication must be mentioned. Each Intelsat IV-satellite in use has a transmitting capacity of 12 television programmes or 16,000 telephone circuits. Nearly 100 countries participate in the Intelsat traffic by using standard earth stations 30mtrs. in diameter.

This list could be continued much further as there are several dozen other satellites already in operation and many hundreds of projects under discusssion. But in compiling the list it has been intentionally pointed out, for instance, that the best-known Intelsat network needs an earth station with an aerial of some 30mtrs in diameter. In contrast, other satellites are able to operate with a parabolic aerial of only one meter. Is the one old-fashioned and the other particularly progressive? What is the reason for this great latitude?

In principle, wireless telecommunication is the transmission of some kind of information or signal from a transmitter to one or more receivers. The signal can be radio, television, telephone, tele-

printer, data or other information which is transformed into electro-magnetic signals. The transmitter can be a broadcast station that brings a FM programme into nearly every home, or a shortwave station that transmits any external programme over thousands of kilometres. Telecommunication is also a radio link, a cable or a transceiver in the well known citizen band. Depending on the tasks to be fulfilled the transmitting stations have differing frequency ranges and performances, contingent on the distances to be covered. But in general distances are limited by physics; for example television antennas must be installed as high as possible. For these terrestrial stations – terrestrial because they are on the ground – there are thousands of varieties, types and tasks; as many varieties in fact as there are different types of cars. Sometimes they are to be found on the crest of a hill, sometimes on a high mast and sometimes hidden in the centre of a town.

Rocket development has now provided the possibility of putting a transmitting station in a satellite and thus put it in an even higher position than was ever possible to achieve with a mast, a tied balloon or an aircraft. It must be remembered, however, that the weight one can bring into orbit with a rocket is limited. Unlimited supplies of electric power cannot be produced on board a satellite and, in addition, it is not possible to make use of all frequency ranges – on physical grounds and because many frequencies are already occupied. This in turn limits the use of satellite transmitting stations and makes it necessary for special, and in some cases extremely expensive, technology to be developed. It is clear, therefore, that not every kind of transmission can be made via satellite.

A communication satellite is nothing else than a transmitter thirtysix-thousand kilometres high over the equator. The satellite alone, however, or even the transmitter in the satellite, cannot be called a system. The satellite must be sent a signal from the earth, which it receives, amplifies and then retransmits. To feed the satellite, it is generally necessary to have a large-scale earth station near the place from where the programme originates. In the event of several countries feeding the same satellite it becomes necessary that these countries have set up earth stations for this particular satellite. In the same way, one, several or many receiving stations are necessary to receive the signals transmitted by the satellite. Altogether these then form a satellite system.

A communication satellite is nothing else than a transmitter thirtysix thousand kilometres high over the equator.

The satellite systems used for broadcasting – irrespective of whether for radio or television – can be divided into three categories.

1. Point-to-point links by telecommunication satellite, for the exchange of programmes between radio stations or countries. Like radio links or cable links a satellite can only be operated economically if other services, such as telephone circuits, are also incorporated. This is the case with the Intelsat-system, with ninetyfour countries and a still larger number of earth stations being linked together, and by means of which telephone calls from Europe to Japan or America can be carried out, as well as the transmission of television programmes from one continent to another.

2. Distribution satellite for radio and television programmes. If there is a large-scale permanent distribution of programmes to a firm circle of subscribers, then also for economic reasons a special distribution satellite would be worthwhile. The distribution satellite can be supplied with programmes from one or several radio stations. The programmes distributed by the satellite are then received by a number of earth stations located at broadcasting houses or transmitter sites for further terrestrial transmission to individual listeners and viewers.

But whereas the Intelsat-system needs expensive aerials of some thirty metres in diameter, the distribution satellite system, because of the great number of receiving stations, must manage with cheaper aerials of some three metres in diameter. Therefore, the radiated power of the satellite must be increased to conform with the small size of the receiving stations. Symphonie (Germany/France) ATS6 (USA), Anik and CTS (Canada), Statsionar (USSR) and JBS (Japan), serve more or less, as distribution satellites.

3. **Direct Broadcasting Satellites.**
Satellites for individual reception by the public must have high powered transmitters on board – some two hundred watts per programme channel – so that small aerials of under one metre in diameter can be used for direct reception. CTS (Canada) allows already test transmissions, but for the same purpose Japan is planning the JBS and Europe the OTS Satellite and further plans are under study by several governments and industries.It can be assumed that in the early 1980's the first satellite system for direct reception will be put into orbit. To make reception possible present television sets must be supplied with special aerials and equipment. In view of the fact that these aerials are relatively expensive (about 350,—$ US) there is likely to be some delay in the introduction and completion of systems for direct reception from satellites.

The borders of the above-mentioned division into three categories of satellites – communication, distribution and broadcasting satellites – are in any case quite flexible, depending on the purpose and the economic demands placed on the individual category. Distribution satellites are an intermediate step in technical development. In the future their tasks will be fulfilled by communication or broadcasting satellites. For the public mainly broadcasting directly from a satellite is of interest, so in the following this type of system is discussed.

To direct reception of satellite broadcasts the following frequency bands have been allotted by a World Administrative Radio Conference 1971.

Region I (Europe, Africa)	**Region II** (America)	**Region III** (Asia)
620-790MHz	620-790MHz	620-790MHz
2500-2690MHz	2500-2690MHz	2500-2690MHz
11,7-12,5GHz	11,7-12,2GHz	11,7-12,2GHz
—	—	22,5-23GHz
41-43GHz	41-43GHz	41-43GHz
84-86GHz	84-86GHz	84-86GHz

The usage of the above mentioned bands is

restricted by certain limitations of the power flux density, sharing conditions with other services and last but not least by technical and political influences.

Beginning in 1977 the first Broadcasting Satellite Conference in Geneva will clarify the frequency usage between 11,7 and 12,5GHz and will also provide a better picture of possible future usage. Today it can be expected that the 12GHz band will be used for domestic services only. In this case domestic means that the programme will be received exclusively in that country which transmits this programme. Transmissions covering several countries presupposes that agreements between the governments concerned have been concluded. An international service, as is at present practised on shortwave for radio transmissions, is not likely to be possible for satellite broadcasting in the foreseeable future. Countries wanting to prevent the reception of foreign programmes could easily and effectively do so simply by causing interference. Nevertheless there would still be a technical spill-over which allows reception outside a country's border. Without doubt industry will find ways and means of increasing the turnover by more sensitive receivers and antennas with result of reception far behind the official and theoretical service areas. This increase is still an unavoidable spill-over but not an international service.

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World-wide broadcasts over satellites will have to contend with obstacles placed in its way through many reasons; i.e. limited frequencies, censorship and not wanted influence in politics, economy and culture by foreign countries. An impossible situation as regards equality of rights for all 160 nations. Limits would also be set because of the costs involved in producing and transmitting a world programme. It must be stated, however, that a satellite transmitter will only be put into operation after it has been definitely proved that it will enjoy economic or political success.

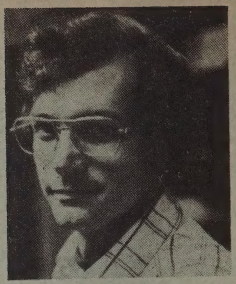
It is a pity that a medium which calls for internationality is restricted to regional broadcasting, but it is likely that there is no way of avoiding it.

The question often posed is whether shortwave radio will become superfluous as a result of the introduction of broadcast satellites. The answer is a definite "No". In addition to the above mentioned reasons, we have the high cost of receivers for satellite programmes. In the foreseeable future it will not be possible to make use of portable sets because of antenna difficulties. The broadcast satellite offers the world's population additional programme possibilities mainly by television. The excessive choice of television programmes is driving the viewer back to his radio, and those stations have a particular attraction that bring exotic information directly from other countries, and this is only possible, for the moment at least, by way of shortwave.

The question often posed is whether shortwave radio will become superfluous as a result of the introduction of broadcast satellites. The answer is a definite "No".

The Satellite Age has already begun. Today communication satellites have already improved the ties between peoples. We have it in our power to decide in which direction the Satellite Age should take us. The flow of information must be increased in order to achieve a better understanding between peoples, to improve the standard of education in the world and to break down the barriers that still exist between countries.

INTERNATIONAL BROADCASTING IN THE 1980s



by Lawrence Magne,
Rockledge, Pa, USA

In 1979, the International Telecommunications Union (ITU) will hold a World Administrative Radio Conference – WARC-79. Among other things, the Geneva Conference is expected to decide on the size and structure of the international shortwave broadcast bands for the remainder of the century.

In the two decades that will have elapsed since the last Conference was held, a number of developments have taken place which make it likely the delegates will take measures to relieve the extreme overcrowding within the international broadcast bands. Among these are the lesser demand on the shortwave spectrum by AM point-to-point operations, increased aural sophistication on the part of potential listeners, and a desire by many countries to bring into line rising transmission costs.

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Broadcasters Need Shortwave

International broadcasting is fairly unique in that it continues to rely almost exclusively on shortwave in order to be effective. Mediumwave, itself overcrowded, has been used successfully for international broadcasting only in selected situations, such as at relay sites or for broadcasts within Europe.

Experiments with direct radio and television satellite broadcasting have been technically encouraging and are economically within the reach of several countries. Despite this, political and other considerations will probably rule out most direct international satellite broadcasting for now.

Finally, unlike point-to-point stations, broadcasters must reckon with reception on inexpensive AM sets; reduction of interference by resorting to single sideband or other narrow-bandwidth modes is not yet feasible. Compatible single sideband, although improved in recent years, has not met existing broadcast requirements and appears unlikely to see widespread use in the near future.

By contrast, point-to-point users have taken advantage of new technology to reduce their demands on the shortwave spectrum. Thanks to the growing use of satellites to replace shortwave for voice and coded point-to-point communications, those portions of the spectrum set aside for international public fixed (IPF) transmissions have been relieved of much of their former overcrowding. Further freeing spectrum space in the IPF bands is multiplex FSK, which allows several coded messages to be carried simultaneously on the same transmitter. For reasons of reliability and safety, aeronautical voice communications have, where possible, shifted away from certain shortwave bands.

Reduction of Interference

International broadcasters face a need, within limits imposed by the AM transmission mode and spectrum demands by other users, for improved protection ratios. There are a number of means by which this can be at least partially achieved. Among those within the purview of WARC-79 are:

* Expansion of the present international broadcast band parameters.
* Creation of new international broadcast bands.
* Elimination of sharing in the 4 and 7MHz bands by broadcasters and amateur stations.
* Wider channel width.

Evolution of New International Broadcast Bands

In order to obtain immediate relief from overcrowding, a number of administrations have made use of ITU Regulation No. 115 (Article 3), which permits out-of-band operation on the condition that harmful interference is not caused. Although the majority of out-of-band broadcasts emanate from a few major world powers, a number of smaller nations are implementing or considering No. 115 as an affordable means of improving reception quality.

As part of its frequency management and monitoring service to international broadcasters, Lawrence Magne Associates maintains spectrum usage data for both the international broadcast bands and those segments immediately adjacent. These data indicate that while the major international broadcast bands (6-17MHz) are overcrowded by a factor of approximately three, certain nearby segments can handle a substantial increase in broadcasting usage within No. 115 and related provisions. This is especially valid in the IPF bands, where the preponderance of point-to-point traffic is in the FM mode and thus not harmfully interfered with by broadcasters in the AM mode.

One result of increased broadcasting via No. 115 has been the evolution of expanded *de facto* broad-

cast bands. This suggests where new band limits may be drawn at WARC-79.

The IPF segments already largely occupied by international broadcasters are 5900-5950, 7300-7440, 9410-9500, 9775-9850, 11650-11700, 11975-12100, 15450-15520 and 17670-17700kHz. New bands drawn around these parameters would be one-third larger than the existing bands.

International Broadcast Bands for 1980's

There are currently in the 3-22MHz range over 10MHz assigned to IPF and less than 2MHz assigned to international broadcasting. The following revised allocations, based on studies done in the United States and elsewhere, would shift 2MHz from IPF to international broadcasting, plus another 0.15MHz from aeronautical mobile to international broadcasting. This would approximately double broadcast spectrum space and, at a 7 or 7.5kHz channel width, increase the available channels by about half. For Region 2, the increase would be even greater because of the inclusion of the 4 and 7MHz bands.

Current (kHz)	Proposed (kHz)	Comments
3900-4000	3900-4060	Regions 1, 2 and 3. Region 2 amateur band 3400-3900kHz (currently 3500-4000kHz).
None	4450-4650	New band.
5950-6200	5750-6200	
7100-7300	7100-7600	Regions 1, 2 and 3. Region 2 amateur band 6765-7100kHz (currently 7000-7300kHz).
9500-9775	9300-9900	
11700-11975	11500-12100	
None	13600-14000	New band.
15100-15450	15050-15700	
17700-17900	17500-18000	
21450-21750	21450-21850	21500-21850kHz if 15 meter amateur band expands.

Improved Shortwave Listening in 1980's

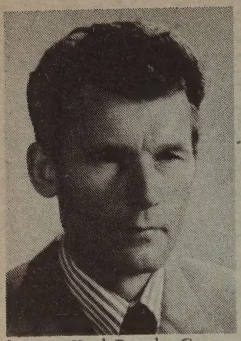
Even with greatly increased bandspace for international broadcasting, interference will continue. Not only will some overcrowding by broadcasters remain, but new forms of interference could appear. The recent growth of military "electronic warfare" is already believed to be responsible for certain new forms of interference in the shortwave spectrum. Nevertheless, the outlook for the 1980's is for a probable reduction in both co-channel and adjacent-channel interference in the international broadcast bands.

Improvements in receiver technology should also enhance shortwave listening. Excellent direct-readout, continuous-tuning portables are already selling in Tokyo for under $100, and a number of manufacturers are entering or preparing to enter the market with comparable models.

Overall, then, the future for international broadcasting appears better than it has for some time. Whether this will be accompanied by an upsurge in listenership is not certain, as research on the cause-effect relationship between signal quality and audience size is scanty. Nonetheless, that which exists indicates at least some positive correlation between the two, suggesting that international broadcasting in the 1980's may become more attractive to broadcaster and listener alike.

Overall, the future for international broadcasting appears better than it has for some time.

N.B: The proposals are basically the authors and do not reflect any administration's official policy.



MAKE YOUR RADIO SET YOUR LANGUAGE LABORATORY

by Dr. Karl Bruch, Germany

It is not the aim of this contribution to motivate users of the WRTH to study foreign languages. What we want to do however is to provide the readers, who have decided to learn a foreign language, with help in deriving information from their radio set for language studies. For as you can see a great choice of language lessons is offered and for many of them, textbooks are available free of charge. The service is already on the air, and it is up to you to make use of it. The following tabulation will guide you to which station you can approach for more detailed information regarding exact time of transmission and frequencies. It has proved impossible to include all this information in the tables. But we hope nevertheless, that they will serve your needs. As this is the first attempt we know that the list is incomplete. For this we ask the kind indulgence of the readers and would like to ask the assistance of everyone in making future editions more informative. Any information on language courses in the external services or in national transmissions, which can also be heard outside the specific target area, is very welcome, both from SW-listeners and broadcasting stations. Information on language lessons which can only be heard in a circumscribed target area because they are transmitted on FM or by cable broadcast, has not been included in the list, as this would have been beyond the scope of this contribution. However, the reaction to this initial information will ultimately decide the future style of this list. We would be grateful for your comment and criticism as well as proposals for improvement of this service.

Finally, we would like to thank the broadcasting stations and individuals who favoured us with the information for the compilation of this list.

Language lessons in the External Services of Radio Stations

Key of Abbreviations
A Broadcasting Station
B Target area or languages in which explanations are given.
C Level of lessons (Elementary, Intermediate, Advanced).
D Textbooks.

AFRIKAANS
A **RSA – South African Broadcasting Corporation.**
B East Africa, West Africa, Middle East, Europe, North America, Dutch, English, French, German.
C Elementary, Advanced.
D Textbook free from RSA.

CATALAN
A **Radio Andorra**
B Catalan, target area: Spain and Southern France.
C ?
D No.

CHINESE
A **Radio Peking.**
B North America, Europe, Asia, Africa, Australia and New Zealand.
C Elementary.
D Booklet with Chinese text only, from Radio Peking. Textbook and Record from Guozi Shudian, P.O. Box 399, Peking.

DUTCH
A **Radio Nederland.**
B World-wide/English. Begin May 1977. Indonesia/Indonesian, current.
C Elementary.
D Textbook free from Radio Nederland.

ENGLISH
A **BBC, Voice of America, Radio Australia, KGEI, WYFR**
1) **BBC**
B World-wide/English, for local destinations. Bulgarian, Czech, Finnish, French, German, Greek, Hungarian, Italian, Polish, Roumanian, Russian, Serbo-Croat, Slovene, Spanish, Turkish, Bengali, Burmese, Chinese, Indonesian, Japanese, Thai, Urdu, Vietnamese, Brazilian Portuguese, Latin-American Spanish, Arabic, Hausa, Persian, Somali, Swahili.
C Elementary, Intermediate, Advanced.
D Some texts, mostly for intermediate and advanced courses, can be obtained from BBC. Others can be bought in bookshops or from agents.
2) **Voice of America**

B	Hungarian	Czech/Slovak	Polish
C	Advanced	Intermediate	Intermediate
B	Arabic	Chinese	
C	Elementary	Special	
	Intermediate		

World-wide broadcast series in SPECIAL ENGLISH (2000-word vocabulary, slower speed than usual)

D Textbooks free from Voice of America.

3) **Radio Australia**

B Indonesian	Thai	Vietnamese
C Elementary Intermediate	Intermediate	Intermediate

D Textbooks free from Radio Australia

4) **KGEI**, Friendship Station, Redwood City, California 94063, USA.

B Russian	Spanish
C Elementary Intermediate	Intermediate
D No publications	Various grammar sheets, vocabularies, etc.

4) **WYFR**, the International Voice of Family Radio.

B English, Spanish, German, Russian introductions.
Lessons consist of slow English Bible Reading, without any comment.

C Elementary.

D If the listener cannot obtain a Bible the station will provide one free of charge.

FRENCH

A **Radio France Internationale**

B German	Spanish
C Elementary Intermediate	Elementary Intermediate

D Texts available in bookshops.

GERMAN

A **Deutsche Welle, Deutschlandfunk, Radio DDR.**

1) **Deutsche Welle**

B Arabic, Chinese, English, French, Greek, Hindi, Indonesian, Swahili, Persian, Portuguese, Romanian, Russian, Serbo-Croat, Slovenian, Spanish, Turkish, Urdu.

C Elementary, Intermediate, Advanced. But not all levels broadcast in all target languages.

D Textbooks available.

2) **Deutschlandfunk**

B Danish, Dutch, English, French, Hungarian, Italian, Norwegian, Polish, Romanian, Serbo-Croat, Slovak, Czech.

C Elementary, Intermediate.

D Textbooks available.

3) **Radio DDR**

B Arabic

C Elementary, Intermediate.

D Textbook available.

GREEK

A **Cyprus Broadcasting Corporation**

B ?

C Elementary.

D Textbook available.

HEBREW

A **Israel Broadcasting Authority**

B Hebrew lessons and special Hebrew news bulletins for new immigrants.

C Elementary, Intermediate.

D Textbooks available.

ITALIAN

A **RAI** (Italy)

B Arabic, Hungarian, Romanian, Swedish, Turkish, Ukrinian.

C ?

D ?

JAPANESE

A **Radio Japan**

B Arabic, Bengali, Burmese, Chinese, English, French, German, Hindi, Indonesian, Italian, Korean, Malay, Portuguese, Russian, Spanish, Swahili, Swedish, Thai, Urdu.

C Elementary, Intermediate in English and Korean only.

D Textbooks available from Radio Japan.

POLISH

A **Polskie Radio**

B German ? ? ?

C Elementary

D Textbook available

Remark: Unfortunately no direct information from Polskie Radio was obtained.

RUSSIAN

A **Radio Moscow**

B Bengali, Danish, English, French, German, Hindi, Italian, Japanese, Norwegian, Romanian, Senegalese, Serbian, Swedish, Urdu.

C Elementary to: Great Britain, GDR, GFR, Autria, Pakistan, Bangladesh, India (Bengali), South Asia, Japan.
Intermediate to: France, India (Hindi).
Advanced to: Romania, Yugoslavia, Scandinavian countries.

D Textbooks available.

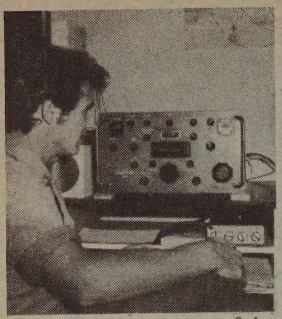
SWEDISH

A **Radio Sweden.**

B Russian

C Elementary

D Textbook available.



LISTENING TO CLANDESTINE TRANSMISSIONS IN EUROPE

by Carol Feil Chairman of the Danish Shortwave Clubs International.

What are "clandestines"?
If you refer to the word "clandestine" in a dictionary, you will find it explained as "hidden; secret, and contrary to law, morals, etc." In the DX-world the notion of clandestine stations has been around for a long time, but even so it is used with a different meaning from one organisation to the other. The main difference being, that some include non-political operations, such as the so-called "pop-pirates", while others think of only political operations, when speaking of clandestine broadcasting.

As the goals and indeed the whole nature of a political clandestine broadcaster is totally different from that of a pop-pirate, it is preferable to have two different designations for these two groups, and the recommendation is that "clandestine" is only used in connection with a political operation, while a non-political should be called a "pirate". In most cases it is very easy to separate these two groups. However, one borderline-case exists, namely the Voice of Peace, operating from Abie Nathan's Peace ship off the Israeli coast. The Voice of Peace is mainly a pirate, broadcasting mostly pop music, but it also carries "peace messages", which may be considered of a political nature.

In the following text only political operations will be considered, and my definition of a "clandestine" is: **A clandestine transmission is a political transmission from a radio station or an organisation that is considered illegal in the target country.** This sounds clear enough, but there are many cases where doubts arise. For instance, when you have a civil warand a certain radio station is considered legal by one group and illegal by the other. And what about Radio Free Europe and Radio Liberty? Everybody knows that these are supported by the American CIA, but how are they looked upon in Eastern Europe and the USSR?

My definition of a "clandestine" is: **A clandestine transmission is a political transmission from a radio station or an organisation that is considered illegal in the target country.**

Obviously, it is difficult to determine what is legal and what is illegal, but I think that anybody with an interest in this aspect of radio listening will include the border-cases. So when in doubt whether an operation should be considered clandestine, just include it! I shall therefore underline that the categorisation made here is made for radio listeners, not for politicians.

Why listen to clandestines?
There are probably a hundred reasons or more why people listen to radio transmissions, especially where shortwave is concerned. Many of these would include listening to clandestines, and for many DX-ers the reception of a clandestine broadcast just means another entry in their log-book. However, concentrating on receiving clandestine transmissions can be thrilling and most rewarding. How is that?

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Even if there is always something more to get on shortwave, the long-time DXer may at times get the feeling that he has heard most of what there is to hear. He needs something more exciting than catching a new frequency of Radio Pakistan or another local of Indonesia. For him the clandestines are a new challenge! Because many of these appear suddenly in the bands, move around, change schedules, and disappear, so you have only your own monitoring to refer to. The identification of the language, the station name, the political affiliation, and – the most difficult – the location of the transmitter represents a special thrill to the experienced DXer.

Besides the feeling of satisfaction in having solved one of the mysterious sounds on the bands, the reception of clandestines is also very rewarding seen from another viewpoint. If you are interested in world politics, in "hot or cold" wars, in the problems of minority groups, etc., you will receive news that you cannot get via your local media or from the international radio stations. You will often be able to look at aspects from more angles, via the news you get from the clandestine programmes, but also because the listening to these stations will automatically interest you more when reading about these events in newspapers, etc. And often you will get very exciting "hot" news from war areas, from coups where new groups take over the radio stations, etc.

For the QSL hunter the reporting of clandestines will probably be disappointing, as the percentage of answers will be very low. On the other hand this fact also represents a special challenge, and may be you are the one who will get the world's only verification from "Voice of Free X". The possibility of getting such a rarity in your collection could be reason enough to try. Often the addresses are not known, so it will be up to your skill and phantasy to find out where to send your report.

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Equipment

A good receiver and a good antenna is essential as it is for DXing in general, and I shall not deal with the basic criteria of receiver selection and antenna design here.

A few points of special interest for the DXing of clandestines are, however, worth mentioning. Most important is, that you must have a general coverage receiver, covering at least 0.5-30MHz, because many – if not the majority – of the clandestines are found outside the regular broadcasting bands. LW is of interest in some cases, so if you can get a coverage of 0.15-30MHz, this is better still. Frequei calibration should be good, because many clandestines may be more easily found and identified due to the fact that they transmit a little off the normally used frequencies, e.g. on 9584½ instead of 9585kHz. Preferably you should be able to read and reset the frequency within ½kHz. Another very important thing is selectivity. Because many clandestine stations broadcast on split frequencies close to or between official broadcasters inside the bands, you should have a variable bandwidth selection, either in 3-5 steps, or continuous variable by means of a Q-multiplier. The addition of a Q-multiplier to your general coverage receiver with a fixed bandwidth for AM will be a vast improvement, and it is a relatively cheap gadget, only it may be difficult to find one these days. In most Q-multipliers there is also included a feature called a notch filter, which is also very worthwhile for clandestine DX. Due to the split frequencies used, or due to jammers that are not exactly on the frequency, you often experience heterodynes – that is whistling tones. These can be easily removed, nulled out, by means of the notch filter. This may also be done using an audio filter with a notch feature (the Q-multiplier working on the IF-section of the receiver).

A good receiver and a good antenna is essential as it is for DXing in general.

A noise limiter is also specially useful because in some cases it may be used to remove a great deal of the interference from jammers. It should be a noise **limiter** and not a noise blanker, which is not very effective on jammers.

As your antenna must cover a wide frequency range, unless you are only interested in clandestines from a certain region, it must be omnidirectional: a longwire aerial is probably the best compromise. A wire of 25-50m, preferably outdoor and as high as possible, will be satisfactory.

Listening techniques

How does one find the clandestines? One method is of course to consult published schedules, and then check what you can hear. *The World Radio TV Handbook* lists a number of clandestine broadcasters, but far from all, due to considerations with regard to its goodwill at the "legal" radio stations. Probably the best source of information is the "World Broadcasting Information" and the "Summary of World Broadcasts", published by the BBC Monitoring Service. Although some clandestines, especially the pro-Soviet Chinese-language ones, are never mentioned in the material from the BBCMS, the coverage is rather extensive and detailed, and it is currently updated. It is however rather expensive for single persons to subscribe to these publications. Some DX-clubs carry news on clandestines, and the Danish Shortwave Clubs International is one of the few having a regular clandestine column.

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Having the schedules you can check what you can hear. In order not to waste an unnecessary amount of time you should have a basic knowledge of propagation conditions. For instance, you should not waste your time trying for an Asian station on a low frequency on a summer afternoon. You should take a good look at the schedules and search out those frequencies and times that you may expect to hear. And you can of course consult the log sections in the DX-bulletins to see what has been reported. It is limited in most of the bulletins, and makes finding and identifying clandestines a difficult job, supporting what I have already mentioned. But it is a very fascinating one for the skilled DXer.

When looking for an outlet that has been published somewhere, you should be aware that many clandestines move around slightly in frequency. This may be to avoid jammers and other interference, or it may be because their transmitting equipment is of poor quality. Some clandestine broadcasts, coming from a legal transmitter in another country, can of course be very stable in frequency. But if you do not find a certain station, where it has been reported, tune around to both sides of the frequency reported and you may find it.

Finding and identifying new clandestine transmissions is even more exciting. They may be found anywhere in the bands and at any time. If you are looking for stations in a certain area of the world, you should be aware that broadcasts are most likely to occur at local morning and evening hours. The outlets may be found inside or outside the broadcasting bands, but if outside they will often be near the edges of the BC bands. Probably because the stations realise that many of their listeners do not have general coverage receivers.

When scanning the frequencies you should tune very slowly and use a bandwidth of 1.5-2.5kHz. If broader, you will miss weak stations near stronger ones. If narrower, the audio will be so "dark" that you may not hear the station. It would be a good idea to have a tape recorder connected, so that you can start recording as soon as you hear something interesting. When trying to get an identification it is a great help to be able to replay the transmission.

When scanning between the broadcasting bands you will not get very many voice transmissions. You can easily hear when it is a broadcaster and not a utility service, among others, if you hear music. A number of legal radio stations, especially Soviet and Chinese, do broadcast between the bands, but most of these you can find listed in WRTH. When you have ruled these out but still cannot hear what it is, you should also beware that it is not a spurious signal (e.g. a mirror signal) created inside the receiver or a harmonic signal or coupling product from a strong radio station.

It would be a good idea to have a tape recorder connected so that you can start recording as soon as you hear something interesting. When trying to get an identification it is a great help to be able to replay the transmission.

It is even more difficult to find clandestines inside the broadcasting bands. Look out for heterodynes, as many clandestines transmit a little off the normally used frequencies; also, many official stations are a little off their nominal frequencies. A notch filter and a narrrow bandwidth will be very helpful here. The sound of a jammer is often an indicator that you have a clandestine behind it. If you have several directional antennas you can try to switch between these, and you may be lucky that one of the antennas will reduce the jamming and allow the required station to be heard. A few more hints may be useful to reduce the effect of jamming. Tune slowly to each side of the station and you may find that a position at one side gives you a better intelligibility. Try turning on the noise limiter. If the jamming is weak or you have other weak interference, you may try to turn down the RF control and at the same time fully turn up the volume control (AF). Then switch off the AGC (automatic gain control) and turn up the RF control until the station is audible.

Also, the style of programming may be indicative of a clandestine operation. Shouting speeches and martial music for example. The talks on most clandestine broadcasts sound very penetrating and propagandistic. You rarely hear soft, neutral voices or soft music.

What can be heard?

Clandestine broadcasting on the world radio scene is constantly changing. Often changes occur in connection with major political events. It can be most fascinating to sit at home in your armchair and be able to follow very closely what is happening. Indeed most of the news from "hot" areas coming to you in your local news media has been caught by a professional monitoring service in the first place, and has then been transported to you via the international news agencies. This happens very rapidly nowadays, so you will probably not gain much in time by listening yourself. But news in your local media is edited, and you get far from everything. And besides it is much more exciting to catch the news directly from the area involved. So, whenever any upheavals take place or can be expected to take place in the world, be on watch at your dial! One example from 1976 has been the war in Lebanon, which caused several clandestine operations to begin broadcasting.

All my own listening has been done in Denmark, using a Collins R-390A receiver and a 60 m horizontal quad antenna at a height of 3 m above ground.

Having said this it must be made clear that by the time your read this article, clandestine broadcasting may have changed considerably from when I wrote it. So the following survey should only serve the purpose of giving you a general idea and some examples of what you may hear. I shall not include a great deal of background information on the stations, because for most of the stations that are mentioned this can be found in WRTH 1976, in Lawrence E. Magne's excellent article "Clandestine Broadcasting 1975".

All my own listening has been done in Denmark. Conditions may be a little different in other parts of Europe. The latest loggings have been done in the autumn of 1976 up to mid-October, in Copenhagen, using a Collins R-390A receiver and a 60 m horizontal quad antennna at a height of 3 m above ground.

EUROPE

More often than not you will find clandestine stations in areas of conflicts and disturbance. There are two such areas in Europe, Northern Ireland and Cyprus. The clandestine stations that have been reported in **N. Ireland** are all of very low power, and they broadcast very irregularly – when an event occurs. They are using mediumwave, FM-VHF, and shortwave just above 6200kHz. They are very rarely heard outside Great Britain and Ireland. Stations representing both factions of the Irish Republican Army, the Provisional IRA and the Official IRA, as well as stations representing the pro-British "Oranges" have been heard. The following station names have been reported: Radio Antrim, Radio Echo, Radio Free Belfast, Radio Free Derry, Radio Free Nick, Radio na Poblachta ("Republic Radio"), Radio Saoirse ("Freedom Radio"), Radio Free Ulster, Voice of Ulster, Workers' Radio. I have never been able to log any of these stations.

In **Cyprus** there have been a number of clandestine stations during the late 60's and up to 1974. The pro-Turkish ones were Canbulat Radio, Voice of the Falcon, Voice of Paphos Veterans, and Sancak Radio. These were all transmitting with low power on MW only, and they have not been heard in N. Europe. One pro-Makarios station, Voice of Free Cyprus ("I Foni tis Elevtheris Kiprou"), was heard in 1974 on SW 6662kHz, but does not appear to be operating now.

The remainder are two pro-Turkish stations, Radio Bayrak and Voice of Cyprus ("Kibrisin Sesi"), the latter not being located in Cyprus, but in

Anamur, Turkey. Both are transmitting on MW with power of the 10kW size, but it has not been possible for me to log them. Radio Bayrak is considered more or less official nowadays, and its schedule may be found in the WRTH.

Besides these two areas we have a number of stations transmitting from Eastern, communist Europe to Western Europe, and vice versa. The schedules of the wellknown **Radio Free Europe** and **Radio Liberty,** broadcasting from Western Europe, can be found in WRTH under W. Germany. Another is **Radio Free Russia,** which may still be around. It used to transmit from transmitters in Bavaria, but these were shut down in 1974. It has also been reported via KBS, Seoul, S. Korea, at 1415-1430 and 2115-2130 on 9640kHz in Russian, and it is possible that this programme may still exist, perhaps on another frequency. Although I have tried considerably, I have never been able to find it. Radio Free Russia is controlled by the anti-communist Narodno-Trudovoy Soyuz ("Popular Labor Union"), and the ID is "Govorit NTS". Verifications exist, and the address to use is: Postbus 902, Rotterdam, Holland.

The following four communist operations are easily heard in Denmark:

Voice of the Communist Party of Turkey ("Türkiye Komunist Partisinin Sesi") is transmitting on MW from Magdeburg, E. Germany, and on SW from a transmitter believed to be in Romania to Turkish workers in W. Germany. Schedule is 0810-0840 on 6200kHz, and 2030-2100(Thurs) on 908kHz, in Turkish.

Voice of the Emigrant ("La Voce dell'Emigrante") is also using the Magdeburg transmitter on 908kHz, and is beaming an Italian programme to Italian workers in W. Germany at 2015-2115(Wed/Fri).

Voice of Greek Democrats Abroad ("Foni ton Dimokratikon Ellinon sto Exoteriko") is a similar programme, broadcast in Greek at 2030-2100(Tues) on 908kHz. No verifications are known to exist from the above three stations. To receive the 908kHz broadcasts a MW loop is necessary to remove BBC's Radio 4. Some interference from Clui, Romania, remains, but the signal from the clandestines is much stronger.

Radio Independent Spain ("Radio España Independiente") has been heard regularly in Europe for many years. Having been on the air since 1941, it is the oldest clandestine station in operation today. For a beginner in this field of DXing REI is a nice catch, because it is easily heard, and it verifies reception reports with an attractive colour printed card, designed by Pablo Picasso. The address is: Box 359, Prague 1, Czechoslovakia. The answer usually comes from France. The schedule is: Via Bucharest, Romania: 0600-0800 and 1600-2345 on 7690v, 10110, 12140, 14480v, and 1200-1400 on 10110, 12140, 14480, 15504v. Via Radio Sofia, Bulgaria: 1235-1255 on 15365, and 2005-2025(Mon-Sat) on 15185kHz. All in Spanish. REI is jammed by Spain, but is clearly heard over the jammers in most of Europe. 7690v has been varying 7688-7691 and 14480v 14479-14481 lately. 15504 is suffering from heavy interference from Moscow on 15505 with Indonesian at 1200. The best frequency in Denmark is usually 12140kHz. The Bulgarian outlets of 15365 and 15185kHz are easily audible.

The last station I shall mention in Europe is **Radio Euzkadi,** Voice of the Basque Underground. This station is not a communist one, but it is the voice of the ETA ("Euzkadi ta Azkhatasuna"), the Basque nationalist movement. The Basque government-in-exile has headquarters in Paris, and reception reports should be sent to: B.P. 59, Poste Centrale, F-75790 Paris Cedex 16, France. It verifies by QSL-card, but answers may take a long time to arrive. The transmitter of the station is situated in the Caracas area of Venezuela. Schedule is: 1928-2000, 2028-2100, 2128-2200 in Spanish and Basque on 12110v and 13250v kHz. Like Radio Independent Spain it is jammed by Spain with jammers imitating utility transmitters. To avoid these the frequencies vary a great deal. Reception is usually fair in Denmark, 13250v being the best frequency. It is the same programme that is repeated twice. At the start of each broadcast IDs are given in Basque, English, French and Spanish. The Basque one is: "Enmen Euzkadi irratia". At times the three half-hour programmes have been broadcast one hour earlier.

AFRICA

Clandestine broadcasting in Africa is dominated by programmes of revolutionary organisations, transmitted via the official radio stations of supporting countries. A number of such broadcasts are coming from Radio Tanzania on 15435kHz:

Voice of the African National Congress (ANC) at 1930-1945(Mon/Fri) and 2000-2015(Sun/Wed). Address: African National Congress, 49 Rathbone Street, London W1A 4NL, UK.

Voice of the Pan-African Congress (PAC) at 1930-1945(Sun/Thu) and 2000-2015(Tue/Sat). Address: Pan-African Congress, Dar es Salaam, Tanzania.

Voice of Namibia (SWAPO) at 1930-2000 (Tue/Wed/Sat), 1945-2000(Sun) and 1945-2015 (Mon/Thu/Fri). Address: SWAPO, P.O. Box 2603, Dar es Salaam, Tanzania.

All these programmes are in English and Vernacular languages. I do not know of any verifications from these stations. Reception in Denmark is very variable in these years of low sunspot numbers. At this time of the evening 15435kHz is near the MUF (maximum usable frequency) in the autumn period, and therefore some days the station is heard fairly well and others not at all. In summer, reception is more regular, and in winter it will probably only be heard on rare occasions.

Voice of Namibia also has programmes via Radio Zambia and R TV Congolaise, Brazzaville. Via Zambia: 1830-1930 on 6060(not Sun), 6165,7235,9580 kHz, and Sundays 1100-1115 and 1130-1215 on 7235, 11880, 17895kHz in English and Vernaculars. I have not heard any of these. Via Brazzaville: 1730-1800(Mon/Wed/Fri) on 4765, 9715, 15190 kHz in English, Afrikaans and Vernaculars. 15190 and 4765 can be heard here, while 9715 is covered at this hour.

From R TV Algerienne, Algeria, we have another two revolutuionary programmes: **Voice of Free Sahara** and **Voice of Free Canary Islands** ("La Voz de Canarias Libre"). The supporting organisations are the Polisario Front (Popular Front for the Liberation of the Sahara and Rio de Oro) and the MPAIAC (Movement for the Self-determination

and Independence of the Canaries Archipelago) respectively. Address of the MPAIAC is: B.P. 216, Alger, Algeria. The two programmes are broadcast at 2100-2200 and 2200-2300 respectively on 251, 575, 1304, 7245, 11810kHz. Voice of Free Sahara is in Arabic at 2100-2140 and Spanish and/or French or Vernacular at 2140-2200, while Voice of Free Canary Islands is all in Spanish. I have heard both programmes on 11810kHz and on 251kHz. 11810 is suffering from heavy interference, but 251kHz LW is very well received here, although there is a strong Danish station (Kalundborg) on 245kHz. A directional antenna (e.g. a ferrite antenna) is necessary.

Two new stations have appeared recently, and they are worth mentioning, although I have not been able to hear them in Denmark. The first is:

Voice of the Eritrea Revolution ("Sawt ath-Thawrah al-Eritrea"), which was first heard on 24 August 1976. Schedule is: 1500-1530(Sun/Tue/Thu) in Arabic on 9635 via Radio Baghdad. At this time the frequency is covered by BBC with Russian here. If you can hear it, you might try to address your reception report to: Eritrean Liberation Front, P.O. Box 9029, Beirut, Lebanon.

The second is: **Voice of Free Africa**("Voz de Africa Livre"), an anti-Frelimo, anti-Mozambique voice transmitting from Gwelo, Rhodesia, in Portuguese at 1700-1800 on 998kHz (100kW). It was first heard in July 1976. Address: VOFA, P.O. Box HG444, Salisbury, Rhodesia.

MIDDLE EAST

In the Middle East clandestine stations come and go rather frequently, due to an unstable political situation with many suppressed minority groups. But there are also stations that have beeen heard regularly for many years, e.g. Radio Iran Courier, Our Radio, and Voice of Palestine. These can normally all be heard quite well in Europe, but during the latest months Our Radio and Voice of Palestine have both been difficult to catch due to heavy interference on most of their frequencies.

Radio Iran Courier ("Radyo-ye Peyk-e Iran") is the voice of the communist pro-Soviet Iranian "Tudeh" party, broadcasting anti-Shah programmes on the three frequencies of 9560, 11415 and 11695kHz. The last two frequencies are via Radio Sofia, Bulgaria. It has been suggested that 9560 is not from Sofia, but from Baku, USSR. The schedule is: 1430-1500 Kurdish, 1500-1530 Azerbaijani, 1530-1620 Persian on 9560, 11415, 11695kHz, and 1620-1650 Kurdish, 1650-1720 Azerbaijani, 1720-1810 Persian on 11415, 11695kHz. On Fridays it is all in Persian. Sometimes the frequencies suffer from interference, but in general the transmissions are all well received. The IDs are: Kurdish: "Peyk-e Iran Sohongliak" Azerbaijani: "Danishir Peyk-e Iran Radyosu" Persian: "Inja Radyo-ye Peyk-e Iran". Verifications have been received on rare occasions. Address: P.O. Box 49, S-034 49 Stockholm, Sweden.

Our Radio("Bizim Radyo") is the voice of the pro-Soviet Turkish Communist Party. It is broadcasting to Turkey from Clui, Romania, on 9585v and 6200 kHz, and from Schwerin, E.Germany, on 9500v and 5915v kHz. Schedule: On 9585v at 0500-0550, 1050-1115, 1640-1705, 1740-1810, 1910-1925, on 9500v at 1015-1045, 1445-1515, on 5915v at 2000-2100, on 6200 at 2005-2020, 2120-2155. All in Turkish. None of these broadcasts are well received at the moment, all suffering from heavy interference. The better ones may be 9585 at 1050, and 9500 at 1445. 9585v and 5915v have been 9584½ and 5914½kHz lately. This may help to separate them from the interfering stations, but it also causes heterodynes. A narrow bandwidth and a notch filter is helpful here. At the start of each programme nine notes from a Turkish xylophone and the ID "Burasi Bizim Radyo" are heard, and this is often easy to recognise through heavy interference. No verifications are known.

Voice of Palestine ("Saut al-Filistine") is transmitting its programmes via a number of Arab-country radio stations: Algeria, Egypt, Iraq, Syria, N. Yemen. The programmes are prepared by the Palestine Liberation Organisation (PLO) and are in Arabic. Verifications have been received on a few rare occasions. Try the address: Saadoon, P.O. Box 3122, Baghdad, Iraq. The schedule changes often. It is now: Via Algeria: 1800-1900 on 529, 548, 692, 1421, 6145, 6160, 7195, 7245, 9685, 11810, 15160, 17825kHz; via Cairo: 1000-1100 on 1106kHz, 1800-1930 on 872, 7050kHz; via Baghdad: 1830-1930 on 760, 7300kHz; via Syria (may be in Lebanon): 0500-0600, 1600-1800 on 1515kHz; via Sanaa: 1900-2000(Fri) on 4852½, 7265, 9780kHz.

The Cairo programme on 7050kHz is well received here, and so is the Friday programme from Sanaa on 9780 and on 4852½kHz. This programme has ended at 1950 lately. Some of the Algerian channels can usually be heard, but at the moment they are all difficult due to interference. The best one is 7245, which is rather 7246kHz. I have not been able to log any of the MW channels. The programmes are easy to recognise with Arabic propagandist shouting and martial songs. The ID is: "Huna Saut al-Filistine, Saut ath-Thowrah al-Filistiniyah", the last part meaning Voice of the Palestinian Revolution.

The stations that have been reported in Lebanon, **Voice of Arab Lebanon** (anti-Phalangist), **Voice of Lebanon** (pro-Phalangist), and **Voice of Progressive Lebanon** (anti-Phalangist, anti-Syrian), may still be active, but it has not been possible to log any of them here. The Christian-controlled Voice of Lebanon was reported in July 1976 at 0600-0800, 1100-1300 and 1500-1830 on 6580kHz.

Apart from Radio Iran Courier, two more stations broadcasting to Iran can be heard, the National Voice of Iran, and Radio of Patriots.

National Voice of Iran("Seda-ye Melli-ye Iran") is a pro-communist, anti-Shah station, that is using a 50kW transmitter of Radio Baku, USSR. It has been on the air since 1959, but has not very often been reported heard, probably because it is broadcasting in the very crowded 49 meter band. The frequency is 6025kHz, and the programme is: 1730-1745 Persian, 1745-1800 Azerbaijani, and 1800-1815 Persian. On 6025kHz several stations are heard at this time, a.o. Radio Nederland. However, National Voice of Iran is slightly lower in frequency, about 6024½, so if you tune down a bit and you have a selectivity curve with a steep slope on the higher frequency side (mechanical filter or crystal filter with phasing), it is possible to get it. No verifications are known from this station.

Radio of Patriots ("Radio Mihan Parastan") is a rather new station, broadcasting in Persian at 0230-0330 on 1124 and 1250kHz. The last frequency is well received in Denmark. At sign on 0230 the ID "Radio Mihan Parastan" is repeated several times. The transmitters used are 1000kW, situated in Libya. The station claims that it is not affiliated to any group or organisation, but it wants to expose "the nature of Mohammad Reza Shah's 'fascist, imperialist-oriented regime and to air the heroism of the masses". In 1974-75 a station of the same name was operating from Iraq on 7230kHz at 1030-1130 and 1515-1615.

ASIA

When the Vietnam war ended there was a sizeable decrease in the number of clandestine stations operating in Asia. Some, like the Vietnamese Liberation Radio, became the official radio stations of the "liberated" countries, while others were shut down. Most of the Asian clandestines in operation today are difficult to receive, except during good conditions in the autumn and winter period.

One exception is **Voice of the Malayan Revolution** ("Suara Revolusi Malaya"), which is clearly heard most of the year on the frequency of 15790v kHz. The station is pro-communist, pro-Peking, and attacks the governments of Malaysia and Singapore. The transmitters are located at Hengyang in the Hunan Province of China. The schedule is: 0420-0515 Malay, 0515-0550 Chinese, 0550-0635 Tamil, 0635-0715 Chinese, 0930-1010 English, 1030-1115 Malay, 1115-1150 Chinese, 1150-1235 Tamil 1245-1330 Malay, 1330-1405 Chinese, 1405-1450 Tamil, 1450-1530 English, all on 11830 and 15790v kHz; 2200-2245 Malay, 2245-2320 Chinese, 2330-0005 Tamil, on 7305 and 15790v kHz. At the moment the station is clearly heard in the afternoon on 15790v kHz. The IDs sound like: Malay: "Inilah Suara Revolusi Malaya", Chinese: "Malaya Geming Chih Sheng Kwangpo Tientai", Tamil: "Malya Puratchi-kural Vanoli Nalayam", English: "This is the Voice of the Malayan Revolution". No verifications are known to exist. The station has been on the air since 1969.

Still older is **Voice of the People of Thailand** ("Sathani Vithayu Sieng Prachachon Haeng Prathet Thai"), which has been around since 1962. Frequencies used are 6033 and 9423kHz, and all programmes are of a 40 minute duration, in Thai at 0300, 0500, 1000, 1300, 1530, 2300, and in Laotian at 0400, 1200, 1430. This station is not often heard in Europe, but I have logged it recently on 9422½ kHz at 1350 sign off and at 2350 sign off. This may be an extension of the programme to 50 minutes, or a change of sign on. The signal is rather weak. Transmitters are believed to be located either in the Yunnan Province of China or at Bien Hoa, N. Vietnam. No verifications known. The station is operated by the pro-Peking "Thai Communist Party".

The remaining clandestine stations of Asia are all very difficult to receive in Europe, so I shall leave it with these two. I hope that this short survey has given you an idea of the fascinating world of clandestine broadcasting and an incentive to start searching for these stations on the bands yourself.

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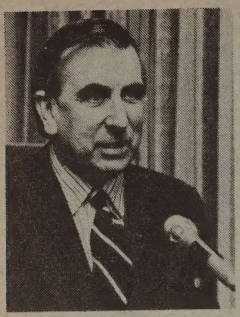

NOW – FOR THE REAL DX! (Amateur Radio)

by Frank Hennig, Presenter of the BBC's World Service Programme "WORLD RADIO CLUB"

What does the term "DX" mean – to you?

If you are new to shortwave listening, then any signal you receive from beyond your own continent is probably (and properly) classed as DX. But once you have passed beyond this stage, you become more discerning. You **know** that – barring very strange propagation conditions – you can tune in with certainty to "The Voice of America"; the BBC World Service; Radio Moscow and the other "big boys" of the international shortwave circuit. This is fine of course from the viewpoint of hearing their programmes; but as for DX . . . it's all becoming a bit too easy! Even the logging of relatively low-powered broadcast stations becomes a shade predictable.

This could be the moment in your career as a shortwave listener when you profitably turn your attention to the radio amateurs of the world. Their transmitters are not the multi-kilowatt giants of the broadcast stations, but modest transceivers that are probably installed in the living-room or the box-room of a semi-detached house – with aerials arranged to suit the limitations of a small back garden or the roof of a "high rise" block of flats.

Make no mistake about it. Listening to the radio amateurs of the world will present you with a brand new challenge; for while it is one thing to log a 100-kilowatt broadcast station at 5000 miles range, it is a very different matter resolving a 50-watt amateur signal over the same path. It demands new skills, even new techniques. But that, after all, is the name of the game – the way to derive new interest from being a shortwave listener.

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Many newcomers to the ranks of SWL's insist that they never even hear the "ham" transmissions. That's strange, for there are now over 750,000 licensed operators throughout the world and 280,000 in the USA alone. The United Kingdom can claim a more modest 20,000 amateur radio operators while the highest density of amateur activity is in Japan with a total of 300,000 licences currently issued. Yet there are two basic reasons why the amateurs may seem oddly elusive to the inexperienced SWL.

Firstly, amateur operation is confined to strictly limited wavebands (or frequency ranges) over the shortwave spectrum. The most popular amateur waveband for world-wide communication is the 20-meter band which is usually good value both for medium-range working and for true DX.

The second reason why the newcomer may miss the amateurs is simply lack of identification; they hear the "ham" stations without knowing it! During the last ten years or so, more and more amateurs who use telephony have abandoned amplitude modulation (the much loved "AM") in favour of Single Sideband. This is the system which eliminates the carrier wave and transmits the "intelligence" on just one of the sidebands – and it has proved a very practical means of accommodating a constantly growing number of signals within a strictly limited frequency range. Admittedly you will find plenty of QRM (or station-to-station interference) whenever you tune across the amateur bands, but the degree of congestion would have been far more acute without the advent of SSB. What's more, this "carrier suppression" technique not only eliminates the headache of heterodyne interference; it means that the amateur can make far more effective use of his strictly limited power.

The most popular amateur waveband for world-wide communication is the 20-meter band which is usually good value both for medium-range working and for true DX.

Yet it has to be said that – to the uninitiated listener – a single sideband transmission can be virtually meaningless. Unless his receiver is especially designed for SSB reception (or unless he has mastered the use of his BFO in this context) the voice he hears will lack any semblance of reality. It's a strange sound that earned for SSB the unkind title of the "squawk box"!

So . . . the listener who insists that he never hears the radio amateurs is saying in effect that he cannot resolve SSB. The moral is simple: he should arm himself with a receiver that has this capability, then he can start listening to the **real** DX!

During this initiation period the 20-meter band (14MHz) will prove a profitable hunting ground. Some of the signals you hear on this band may surprise you both for their strength and their quality; a well resolved SSB signal **can** have much of the realism of AM. Other signals, deeper in the noise, will tax the capabilities of you and your receiver far more sternly. But remember, there is very little "split frequency" working in amateur radio these days; most contacts are conducted on a common frequency. This means that if you log a local station talking to a fellow amateur half-way around the world, you will **not** have to retune the receiver to hear that distant station. Almost certainly he will be a lot weaker than the "local" and he may be deep in the QRM; but if your neighbourhood amateur can hear him, so should you. That's where a sensitive receiver, a good antenna **plus** plenty of operating skill come in.

Having got the "feel" of ham radio from the 20-meter band, try spreading your wings into other amateur territory. Given the right conditions and the appropriate time of day the 15-meter (21MHz) band can be highly rewarding. In general there is less congestion here and DX signals can sometimes be logged at quite phenomenal strength. But don't be disenchanted if you find the band completely dead. It will often open for half an hour or so then go flat. Or it can be utterly quiet for days on end then come dramatically to life for an exciting week or so. **Unpredictability** is part of the fun of it all!

Still more intriguing in its way is the 10-meter amateur band. Its DX-potential varies in sympathy with the rise and fall of sunspot numbers, but even in periods of so-called inactivity the band may spring into life and reward the listener with one or two rare "catches".

It has often been said that at least part of the problem of 10-meter inactivity is that the amateurs tend to abandon the band during periods of **predicted** poor conditions. But predictions don't always come true! That is why one brave group of amateurs in the USA have formed a Ten Meter Club, to ensure that the band is always populated and that promising openings are therefore never missed.

Still more intriguing in its way is the 10-meter amateur band. Its DX-potential varies with the rise and fall of sunspot numbers.

Yet for all these uncertainties – this much is **certain!** Rarely is there nothing of interest to be heard on any of the amateur wavebands; and if listening to the shortwave broadcasting stations intrigues you – the fare that the amateurs have to offer will prove vastly different but no less varied! On occasions, it can be highly instructive too.

You may hear an operator working from deep in the outback of Australia. You may tune into an S9 signal from the mile-high city of Denver, Colorado . . . or an S2 transmission from deep in the jungles of Peru. You may log a station with the suffix "Maritime Mobile" sailing perhaps across the China Seas or edging deep into Antarctic waters aboard an American ice-breaker vessel. These are not just colourful possibilities. I have contacted these very stations from my own modestly powered station, G3GSW.

Even so, the great majority of radio amateurs are "home based". It is this strictly person-to-person element of amateur radio (talking from one family fireside to another) that holds such special fascination.

How it all Happened . . .

In the very early days of "wireless", during the opening years of this century, radio amateurs were tolerated but scarcely respected. The whole idea of signals being sent through space was so new and revolutionary that the mere thought of an experimenter **in his own home** making himself heard in far away places seemed to border on the realms of science fiction.

Amateurs were therefore relegated to the supposedly unpromising territory of 200 meters and below; there it was felt the "ham" fraternity could certainly achieve very little – but, just as certainly, could do no harm. As it happened, events of the next few years had a very different story to tell.

It was amateurs who blazed the trail of shortwave communication. They edged confidently downwards from 200 meters into wavebands that had never been explored before. Suddenly – the silence of untold centuries was broken. And soon the amateurs were confounding the so-called experts by proving that (within limits, anyhow), the lower they went in wavelength, the easier it was to establish long-distance communication.

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Virtually every contact made in those pioneering days was a "first"; the first amateur contact across the Atlantic on 110 meters in 1923; the first amateur two-way communication between Britain and South Africa – and between the USA and South America. More than this: the opening of the "shortwave" era finally put paid to the belief that DX contacts were only possible across a path of darkness. It may have been true in the days of 200 meters and above. But now the amateurs were consistently making contact over 3000 miles or more in broad daylight. No wonder that the world's broadcasting stations – not to mention Government and commercial interests – swiftly turned their attentions to the once despised shortwaves.

Now – everyone was in the hunt. But the amateurs had paved the way . . .

What's New?

Those action-packed days of the shortwave pioneers can never be recaptured. They have passed into the realms of radio history. But for the listener who has devoted hours to the search for elusive broadcasting stations in distant places, the first excursion into amateur territory can provide a dramatic (and refreshing) change of scene.

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The whole essence of amateur radio is two-way communication; and since those who populate the bands have a common interest in radio, the main topic of discussion is inevitably – radio!

Perhaps the first amateur you log has just installed a new speech processor; you will hear him testing it on the air with his contact – and you can decide at first hand the value (or otherwise) of this particular piece of equipment. Or perhaps he has a newly erected Yagi-type beam antenna; you will hear his signal vary in strength as he turns the beam and enquires how the "back-to-front" ratio can be rated. You can form your own opinion – you are "in on the act". That's half the delight of listening to the "hams".

In short, there is a very real element of involvement here. You are not listening to the carefully rehearsed programmes of a broadcasting station (though let no one deny that a high proportion of these programmes are admirably produced and presented). On the contrary, there is still the healthy tang of experimentation about amateur radio . . . and as a listener to it all you are involved, if only on the sidelines!

In my own early days on the air, all the equipment I used was home-built; and though I fairly quickly progressed from the "breadboard" layout (in which the components were mounted on flat boards with little regard to the space they occupied), even in relatively recent days I was the proud owner of a 100-watt home-built AM transmitter which stood six feet high in a massive rack-and-panel arrangement. The coming of transistors, integrated circuits – and the advent of SSB – has radically changed all that.

Many amateurs still build their own equipment; most have a range of test gear which enables them to maintain and even modify any commercially made equipment they buy. But **portability** has now come to amateur radio in a big way – which explains why an increasing number of operators now tuck their transceivers into the family car and can be heard signing with a "Mobile" suffix as they make their way across country. And don't imagine that mobile working is necessarily limited to short-range contacts.

On the 15-meter band I have QSO'd from England with many US amateurs on the move in their Cadillacs or Pontiacs. More than this, many "mobile to mobile" contacts have been reported right across the world, using transceivers powered from the car's own batteries and end loaded aerials of the whip variety attached to the rear of the car.

Yes – amateur radio offers immense scope for "QRP" – or low power operation. When the unpredictable 10-meter band is wide open, two-way contact across the Atlantic is perfectly feasible on a power of 1 watt. Similarly, on 20 meter CW (telegraphy) I have worked to New Zealand with a modest 4 watts. Achievements like this are not merely gratifying in themselves; they prove conclusively that every aspect of the installation – receiver, transmitter, feedline and antenna – is working at a high level of efficiency. And if you as an SWL manage to log a "mini-power" transmission of this sort you have the added bonus of knowing that **your** receiver is doing pretty well too!

When the unpredictable 10-meter band is wide open, two-way contact across the Atlantic is perfectly feasible on a power of 1 watt.

Station Identification

It is a fact of life that so many nations are facing financial problems these days that they are making drastic cut-backs in their overseas broadcasting services. Some countries have ceased World Broadcasting altogether – which is bad news for the SWL, whether he is principally concerned with DX for its own sake or listens chiefly for programme content.

On the credit side however, the SWL can find some compensation by turning his attentions to the amateur bands. Countries that have never offered any sort of broadcasting service to the world are well represented in the ranks of the amateurs; prefixes you have never logged before will certainly come your way on "20" and "15". You should therefore arm yourself with an up-to-date list of international prefixes before venturing on to the amateur bands; and if you plan to send QSL's direct to some of the stations you log, a copy of the latest Radio Amateur Call Book is another near necessity.

While on this topic of sending QSL cards to amateur stations please remember that if an IRC is appreciated by a National broadcasting service, it will be doubly welcome to the hard-pressed "ham". Remember too that your report to the amateur station can scarcely be **too** detailed. If you hear him testing out a couple of different aerials, tell him (with as much detail as you like) which antenna gave best reception at your location. Or if you hear him trying out a new speech clipper, give him all the facts you can about the way it changed his "talk power" and the way it affected his speech quality. Put yourself in his shoes; tell him the sort of things you would like to know had you been at the transmitting end. That way you stand the best possible chance of earning his thanks – and his QSL card!

Be Warned!

There's no accounting for tastes. Some SWL's have been frankly disappointed with their excursions on to the amateur wavebands. They insist that amateurs talk of nothing but the weather and their "rigs" – and are a very poor substitute for the professional performers of a world broadcasting service. Others delight in the informality of amateur radio . . . the very fact that it brings ordinary people together, no matter what physical or political boundaries may separate them; though it has to be said that while amateurs can discuss almost any topic on the air – their licences usually make it clear that politics and business matters are strictly barred. That's fair enough when you consider that amateurs are not granted "air space" for the benefit of conducting business deals – or for converting others to their political or religious way of thinking.

It can happen that the shortwave listener becomes so interested in what he hears on the amateur bands that he decides to learn morse code, so that he can listen not only to telephony signals but to CW transmissions as well. Most telegraphy signals are to be found in the lower 50kHz of each amateur band – and although some insist that CW is a totally outmoded means of communication in these days of sophisticated speech systems, there are many who staunchly maintain that well sent telegraphy can be a joy to hear and will make itself readable through QRM that would totally swamp a typical SSB transmission.

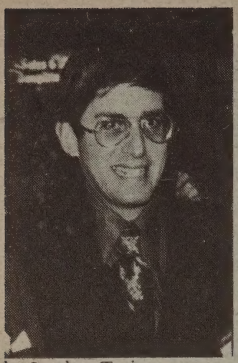
But here's that word of warning. Once the SWL has mastered the code, he has one of the key qualifications for earning a transmitting licence of his own. If then he can pass a reasonably straightforward technical test – he's on his way! This is the moment to take a long, deep breath . . . and to think carefully!

Amateur radio transmitting need not cost you a great deal of money; it **can** – but it need not. Almost certainly however it will occupy a lot of your time. You may find yourself in the garden on the bitterest of winter days, wrestling to erect a new beam antenna. You may find yourself talking deep into the night – to the delight of your contact half way round the world but to the despair of your family trying to get some sleep upstairs. If you are married, you may even find yourself in conflict with your loved one – trying to explain why the money she has earmarked for some household necessity has been spent instead on a drum of coaxial cable or a much needed dynamic microphone. But frankly that's your worry!

You may find yourself talking deep into the night – to the delight of your contact halfway round the world.

Firstly, try listening to the radio amateurs of the world. If you then decide to join us, you haven't merely found a new hobby – but a new way of life!

THE CITIZENS BAND



by Stephen Traiman,
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With Billboard Publications for 17 years, Stephen Traiman received his BSJ with high honors from the University of Florida in Gainesville in 1957, and subsequently worked on the Gainesville (Fla.) Daily Sun *and for UPI in Miami before joining Billboard. Prior to his recent post, he was editor and publisher of* VidNews, *a bi-weekly international video newsletter, and produced two VidExpo video expositions for the company.*

The Citizens Band or CB explosion in the United States over the last two years is expected to provide a bumper crop of prospects for the ham radio and more serious international telecommunications markets in the years to come. As the first step in the global link of communication, CB has brought to the industry many people who now consider the medium far more than the fad or hobby that first attracted them.

While CB has been on the scene for a number of years, and provided steady sales to a relatively small group of domestic and foreign suppliers, it was the great worldwide petroleum crisis of late 1974 and early 1975 that created the real boom in America.

CBs had basically been used by long-haul truckers, farmers, salesmen and law enforcement officials, particularly in the "wide open spaces" where communication facilities were not as sophisticated, nor as widespread, as in the more urban locations. There were perhaps a million CB licenses, all granted by the Federal Communications Commission, with several hundred thousand added on an annual basis.

By way of comparison, at the end of 1974 the FCC had on file approximately 1.04 million active licenses for CB two-way radio operation (Class D). There were 476,000 applications made that year, and 378,000 granted, an average of 40,000 monthly applications and 31,000 grants.

By the end of 1975 there were more than 2.65 million active licenses, with a staggering 2.35 million applications and 1.73 million new grants, a monthly average of nearly 200,000 applications and 145,000 grants.

As the first step in the global link of communication, CB has brought to the industry many people who now consider the medium far more than the fad or hobby that first attracted them.

In 1976, the barrage continued to climb through midyear, with more than 6.5 million active licenses based on applications that peaked at nearly 600,000 a month in late spring. And the forecast was for 10 million licenses in use by the end of the year, until the FCC approved the expansion to 40-channel usage from the original 23 on the 27MHz band. This produced a definite downswing in sales, and applications, with a lowered forecast of perhaps 8 million licenses by year end.

These statistics provided by the Citizens Radio Section of the Electronic Industries Association (EIA) provide a graphic example of the growth of CB in America, keeping in mind that even these figures are now out of date, increasing in every category:

- More than 14 million citizens two-way radios are currently used by Americans for business and personal use.
- One out of 11 of all American families, and one out of six farm families, now use CB two-way radio.
- One of every 19 vehicles on the road is equipped with CB radio, including:
- One of every 18 passenger cars;
- One of every 2 long-haul trucks;
- Two of every 7 recreational vehicles (RVs);
- Three of every 7 4-wheel drive vehicles;
- One of every 7 pleasure boats now use CB radio.
- Four of every 100 homes now have a CB base station.
- More than $4 billion has been invested in CB radio equipment currently used by the American public.
- Over 40 million emergencies and assistance requests are handled annually via CB radio.
- Recent research shows 70% road-related incidents; 26% accidents; 22% stalled vehicles; 18% requests for information; 13% road obstruction, traffic hazard or traffic signal malfunction.
- More than 3,000 volunteer organizations and a growing number of police agencies monitor Channel 9 – the Official Emergency Channel – to assist the public. This includes Highway Patrols in a number of States.
- Industry forecasts for 1981 – less than five years from now – are staggering, even at relatively more conservative growth levels, and are an indication

that the pool of potential new ham radio and wireless operators will continue to expand.

● With an estimated 205 potential mobile and household CB radio locations in the US today, the 13 million plus sets in operation represent about 6% market saturation. By 1981, approximately 50 million transceivers alone will be in use, with about 24% market penetration overall.

● In cars – total 102 million now, with about 5% penetration or 5 million units worth $500 million. By 1981, projection is 24% saturation or 28.5 million units worth $3.5 billion.

● In recreational vehicles – total 5 million on the road, with 14% penetration or 700,000 units. Within five years projections are for 35% saturation or 3.8 million CB radios.

● In households – total 70 million locations, with only 1.5% base station penetration or 1.05 million units. By 1981, saturation is expected to grow to 15% or 10 million transceivers.

● In long-haul trucks – total 3 million on the road, with close to 50% saturation or nearly 1.5 million units. In less than five years, penetration is expected to top 60%, with more than 2 million units.

● In other trucks – total 21 million on the road, with only 6% penetration or 1.3 million units. By 1981, this should grow to 30% saturation, or more than 6.3 million.

"Personal Communications"

In addition to the oil crisis which brought home the need for more contact on the road between the average citizen and his "good buddy", who were drawn together by a common search for a station with a supply of gasoline, the purely "personal touch" of the CB radio has been a major factor in its phenomenal growth in the US.

As the fastest growing communication medium since the telephone, which marked its centennial in 1976, half of the 13-million-plus CB sets now in operation were purchased in the last two years or less, and the industry expected overall sales to wind up by year-end at close to $1 billion.

When President Ford's wife Betty was immortalized as "First Momma", she became the most illustrious "handle" in the CB fraternity to date. The industry got another dramatic boost that reflected the appeal of CB for every citizen, no matter his or her position.

It really has become the "party line" for strangers to become friends, encouraging them to go into the most personal comments or details while helping out on traffic directions, or getting assistance for car trouble. People who would pass each other on the street or in their apartment house without speaking have become friends through shared needs to communicate.

As society has become more fragmented and impersonal, the CB radio has become a lifeline for a growing number of people who were drawn to the medium as a fad or hobby, and now have found it a vital tie between themselves and the community at large.

It is this growing sense of CB as a very "personal" means of communication that led the FCC to approve the expansion of the somewhat overcrowded 23 existing channels to 40, effective January 1, 1977.

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Since its establishment, CB truly has been a "citizens" service, with no tests or special technical knowledge required to own or operate a CB two-way radio, unlike the more technically oriented ham operation and others. The FCC requirements for ownership and operation are very simple, and designed to encourage wider use of the medium.

A radio station license, valid for five years, is obtained by filling out the CB station license application form available from any retailer or the FCC. It is then mailed with the appropriate fee – now $4 – to a special zip code set up by the FCC to speed the applications. Only one application form is required regardless of the number of base stations, mobile radios or portable units that are operated.

Any US resident, male or female over 18 years old, is eligible to apply for a CB radio station license. The FCC assigns a CB license number and informs each applicant granted a license the simple rules and commonsense restrictions governing CB operation:

● When you "call" another person, you must identify yourself by your CB license number.

● You may talk for five minutes only, and then must wait one minute before making another call.

● You may conduct any communications related to your personal or business activities, or emergency communications.

● No abusive language, deliberate interference, advertising, sound effects or music are permitted.

● In general, you may use your CB radio freely, anytime you wish, for normal personal or business communications.

Any US resident, male or female over 18 years old, is eligible to apply for a CB radio station license.

The interference problem has been the most serious, caused most often by illegal amplifiers which boost power from the permissible 4 watts to up to 2,000 watts, and transmitted in non-CB bands, as well as 200-watt amateur radios that operate in the 10-meter band, modified to transmit in the existing 11-meter CB band.

This area between the amateur and CB bands, known as "Whiskey Land" or simply "HF", has attracted a growing number of CB "bootleggers". The "Whiskey" comes from their made up identification numbers which contain the letter "W" or its phonetic-alphabet equivalent, "Whiskey".

Conservative estimates put the total number at around 60,000 at present, though it may be double that or more. While normal CB transmission is possible between 5 to 15 miles for mobile units, and 15 to 35 miles for base stations, the bootleg operators with beefed up amplifiers have no qualms

Citizens Band 10 Code
General Station Operation

10-1 Receiving Poorly
10-2 Receiving Well (signal strength if requested)
10-3 Stop Transmitting
10-4 OK, Acknowledged
10-5 Relay Message
10-6 Busy, Stand By
10-7 Out of Service, Leaving The Air
10-8 In Service, Subject To Call
10-9 Repeat, Reception Bad
10-10 Transmission Completed, Subject To Call
10-11 Talking Too Rapidly, Slow Down
10-12 Officials Or Visitors Present
10-13 Advise Weather, Road Conditions
10-16 Make Pickup At ____
10-17 Urgent Business
10-18 Anything For Me?
10-19 Nothing For You, Return To Base
10-20 What Is Your Location?
10-21 Call ____ By Telephone
10-22 Report In Person To ____
10-23 Stand By
10-24 Completed Last Assignment
10-25 Do You Have Contact With ____?
10-26 Disregard Last Information
10-27 I Am Moving to Channel ____
10-28 Identify Your Station
10-29 Time Is Up For Contact
10-30 Does Not Conform To FCC Rules & Regulations
10-32 I Will Give You A Radio Check
10-33 Emergency Traffic At This Station
10-34 Trouble At This Station, Help Needed
10-35 Confidential Information
10-36 Correct Time Is ____
10-37 Wrecker Needed At ____
10-38 Ambulance Needed At ____
10-39 Your Message Delivered
10-41 Please Turn To Channel ____
10-42 Traffic Accident At ____
10-43 Traffic Tie-Up At ____
10-44 I Have A Message For You
10-45 All Units Within Range, Please Report
10-50 Break Channel
10-60 What Is Next Message Number?
10-62 Unable To Copy, Use Phone
10-63 Net Directed To ____
10-64 Net Clear
10-65 Awaiting Your Next Message Or Assignment
10-66 Cancellation
10-67 All Units Comply
10-69 Have You Dispatched Message?
10-70 Fire At ____
10-71 Proceed With Transmission In Sequence
10-73 Speed Trap At ____
10-77 Negative Contact
10-81 Reserve Hotel Room For ____
10-82 Reserve Motel Room For ____
10-84 My Phone Number Is ____
10-85 My Address Is ____
10-88 Advise Phone Number Of ____
10-89 Radio Repairman Needed At ____
10-90 I Have TV
10-91 Talk Closer To Microphone
10-92 Your Transmitter Is Out Of Adjustment
10-93 Check My Frequency On This Channel
10-94 Give Me A Long Count (test intermittently with normal modulation for ____
10-95 Transmit Dead Carrier For 10 Seconds (test with no modulation)
10-99 Mission Completed, All Units Secure
10-100 Nature Calls
10-200 Police Needed At ____

Phonetic Alphabet For CB

A – Adam
B – Boy
C – Charles
D – David
E – Edward
F – Frank
G – George
H – Henry
I – Ida
J – John
K – King
L – Lincoln
M – Mary
N – Nora
O – Ocean
P – Paul
Q – Queen
R – Robert
S – Sam
T – Tom
U – Union
V – Victor
W – William
X – Xray
Y – Young
Z – Zebra

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about talking long distance "skip", or making illegal transmissions with stations up to 150 miles away or more.

The FCC has the arrest of these illegal operators as a number two priority, right behind cracking down on those who fail to identify their station with proper call signals. The "HFers" cause serious interference with many business band and land-mobile operators who are legally authorized to use the frequencies above CB.

This past Otober, the FCC seized more than $65,000 in altered CB and amateur radio equipment in the largest simultaneous execution of search and seizure warrants in Commission history, following three months of surveillance and complaints of CB interference in Maryland. In addition to the equipment, some 19 persons were charged with from nine to 25 violations, punishable by up to a $500 fine on each violation. At the same time, another raid by the FCC in New Jersey led to the "capture" of 10 violators and confiscation of more than $10,000 worth of bootleg equipment.

The other major interference – and far more widespread – has come from the effects of CB operation on some television channels – mostly 2, 5 and 6 – with the blame for the problem shifted from one set of manufacturers to the other. As a result, when the FCC was considering expansion of CB service, the television industry had sought acceptance of at least 105dB harmonic suppression standards to virtually eliminate the problem in the new CB sets.

But last October, the FCC reinforced its June 27 action increasing the number of channels to 40, and allowing interim acceptance of 60dB harmonic suppression standards. It rejected pleas for reconsideration of its action by the Association of Maximum Service Telecasters and the ABC Television

Network which claimed that allowing the interim levels would means even more interference with TV reception.

Emphasizing that the expansion of the CB service was required "in the public interest", the FCC said that if the tighter radiation standards recommended by the telecasters group and ABC were required for the new Class D transmitters, the CB frequency expansion would have been delayed, because manufacturers would have to redesign their equipment to meet those specifications.

However, the FCC said that the 60dB standard is an "interim" measure, and promised that there will be rulemaking in the near future looking toward adoption of radiation standards on the order of about 100dB.

Meanwhile, manufacturing of Class D transceiver models type-accepted by the FCC prior to Sept. 10, 1976 – in essence all the old 23-channel units – must end by Aug. 1, 1977, and marketing of these transmitters must end by Jan. 1, 1978. Any CB manufacturer who wants to continue making or marketing these units after that time can assign new model numbers and submit the transmitters to the FCC prior to Aug. 1, 1977, for re-type acceptance under the new technical standards.

These tighter standards on receiver radiation limits in particular were put into effect by the FCC when it approved the expansion of service to 40 channels. The most disputed new rule was the 5 microvolt (uv) per meter chassis radiation limit, which affected a number of the initial samples of new units submitted to the FCC for type-approval.

As a result the Commission in November approved a waiver that increased the chassis radiation limit from 5 to 50uv per meter at 3 meters on 23-channel units remanufactured for 40-channel use, applied only to CB units actually in inventory as of Nov. 1, as reported to the FCC in the 40-channel applications. A stiffer leel of 25uv was required for samples submitted for type-approval, with 50uv for production models.

Remanufacture must end when these inventories are depleted, but no later than Jan. 1, 1978, and marketing must stop by Jan. 1, 1979. Progress reports on inventory reduction must be filed with the FCC on April 1, July 1 and Oct. 1, 1977, and all such remanufactured CBs must carry a label stating that they are covered under the FCC waiver.

Between Sept. 10 and the Nov. 1 deadline set by the FCC to guarantee approval for sale on Jan. 1, 1977, a total of 485 individual units were submitted for testing. Less than 50 models had been given approval as of mid-November, with additional approvals expected just as quickly as the overburdened FCC staff could complete the testing.

With the expansion from 23 to 40 channels, the CB industry has moved from the expensive crystal-operated units to the new phase-lock-loop (PLL) digital synthesis technology. This offers extended service designs with a compact chassis, separately packaged controls and electronics, and in-microphone tuning and channel selection – basically a modular approach – and LED (light emitting diode) channel readout.

Retail prices for the new equipment are anticipated anywhere from 10 to 15% above 23-channel units with comparable features. But the big drop in 23-channel sales since the FCC approved service expansion has the industry concerned whether the new models will pick up the lost sales – and then some.

The addition of more sophisticated and more expensive single sideband (SSB) equipment also is anticipated in the general "trading up" of the CB market that is being experienced at all levels. While inventories of 23-channel units were being cleared at almost below-cost prices in the latter half of 1976, the reception for the new 40-channel units is still uncertain.

As a result, a number of the major manufacturers offered various conversion programs to boost sales of 23-channel units in the last half of 1976.

- Pathcom (Pace) offered to update any 23-channel PLL unit purchased between August and Jan. 1, 1977, for about 20% additional cost per unit.
- SBE's conversion program rebuilds any 23-channel set for fees from $36 to $95, depending on the model, starting in January.
- Sharp customers can bring their 23-channel CBs back to their dealer from January through April and get a comparable 40-channel unit for a $30 exchange.
- Cobra (Dynascan) is offering two options – any PLL unit bought between Aug. 1, 1976 and Jan. 1, 1977, will be rebuilt for about $40 for AM and $80 for SSB, or the customer will be given a $40 discount off the purchase price of a new 40-channel model.
- Hy-Gain will remanufacture seven models of its 23-channel PLL line for about $25, with no time limit.
- Handic USA had a novel twist, offering purchasers of 23-channel units a certificate entitling them to buy 40-channel units at half price when the line becomes available, at $179 to $249, with no trade-in.

The new 40-channel units already are creating a new growth market – that of AM/FM radio and tape combinations. The compact chassis and modular design lends itself to such a combination, with the growing in-dash configuration another important factor in the continuing anti-theft campaign. Priced at $300 and up, such units are expected to take a larger share of the new CB market, offering more options to purchasers and a combination of personal communications and entertainment.

One major controversy still unresolved is the effect of the upcoming peak of the current 11-year sunspot cycle on the 27kHz CB wavelength. Unconfirmed reports that the FCC may adopt an Electronics Industry Assn. proposal to shift the CB band to a higher, sunspot-proof frequency, could make obsolete the existing 23-channel and new 40-channel equipment. Under consideration are wavelengths in the Class E band (200 to 225kHz) and the UHF range (900kHz).

Several press reports in the US have compared the situation to the FCC's virtually overnight decision back in 1945 to change the FM radio frequency to compensate for the effects of sunspots and television interference, leaving more than 500,000 owners of early FM equipment with obsolete sets.

Donald Lucas, who directed the US Department of Commerce "sunspot study", explains that while CB radio signals normally go out in all directions, including straight up and through the atmosphere, due to ionization of the atmosphere's F-2 layer some 150 miles up during sunspot activity, the signal will skip or reflect back to earth at random. This skip interference would have the effect of scrambling signals, knocking out most local communication.

These "sunspot scare" stories that appeared during late summer and into fall, combined with the uncertainty of the new 40-channel approvals, had the effect of severely depressing the CB market in America. However, there is as much expert opinion on the other side of the controversy, to the point that the coming sunspot peak activity period will not have nearly the serious effects anticipated.

Whatever the outcome of the sunspot situation, CB technology is advancing so rapidly that it is unlikely major manufacturers will not have the answer to any problem of such interference. Several have commented that, at worst, new 40-channel and existing 23-channel equipment might have to be modified to accommodate any new frequencies – but they do not consider the problem insurmountable.

For the confirmed ham operator or DXer, the new CB boom may not have much significance, but it already has mushroomed the global telecommunications fraternity, providing a new pool of prospective operators ready to step up to bigger and better media of wireless communication.

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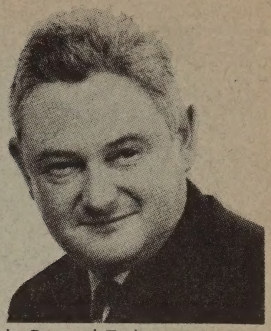
EDITORIAL RESPONSIBILITIES IN THE BBC



by Desmond Taylor
Editor,
News and Current Affairs

If one of you were to go into a BBC newsroom and start talking to the journalists about their editorial responsibility, they might well scent pretension and shy away. Editorial responsibility in its broader sense is probably a concept which seldom enters their heads – and yet they are not irresponsible people. They take their jobs very seriously; they are highly self-critical (their wives will tell you that they talk of very little except work); they take pains to make the product as good as possible and the responsibility they feel is *to* the product, its relevance, accuracy and honesty. If they think about the effect broadcasting has on the audience, it will be confined to a very narrow interest in engaging attention and understanding. The rest is not their business.

It sounds appalling, presented in such stark, perhaps over-simplified terms; the antithesis of responsibility – yet it is not. It arises from a deeply-held belief, going to the roots of BBC tradition, that competent disinterested journalism has an important role to play in our Parliamentary democracy.

Disinterested journalism is basic, and it arises from our obligation to be impartial. The BBC journalist like any other citizen has his views. He would be a bad journalist if he took no interest in the world around him and an unlikely human being if that interest did not father opinions; but in the office he has to stand back from these opinions, distance himself and keep them out of his work. (If he doesn't succeed, some editor will keep them out for him.) He must have the same attitude to his raw material that an employee of a bank has to its money – it isn't his. He is handling it on behalf of other people, he must preserve it scrupulously, never convert it to his own use. He must not try to change people's minds, or confirm their beliefs; he must give them the untainted information they need to make up their own minds. He cannot aim to move events, from however worthy a motive and for however worthy an end. He can report possible abuse, not campaign for its abolition; call attention to what seems like law breaking, not advocate prosecution; give an account of a demonstration without making a judgment as to whether its aims or conduct are right or wrong; say there was a strike and what it was about, without taking sides between employers and employed. In other words, he reports and in doing so he implies neither approval nor disapproval. He is merely saying to the public: "This has happened, and we feel you might be interested in it – or alternatively, that you ought to know about it and the arguments it has aroused. What you do with the information is up to you and your judgment as to how you should act as a citizen." And I would add to that that it is the citizen's business what he does with the information and explanation – not that of the BBC journalist. Columnists and leader writers in the printed press have a different though equally legitimate aim. They seek to persuade, convince, play an active role in events – but they are not working for a semi-monopoly, using public money and enjoying a privileged position. Parliament has not felt it necessary to impose on them the obligation to avoid editorialising.

The BBC journalist must have the same attitude to his raw material that an employee of a bank has to its money – it isn't his. He is handling it on behalf of other people.

Nothing that I have said should be taken to imply that the BBC journalist does not care about what happens, still less that it does not require considerable self-discipline for ordinary sinners to adopt this slightly saint-like role. As an example of what it means, let me tell you that I cannot recall having made, in the 21 years I have worked for the BBC, a single overtly political statement in public – and I regard as public any occasion when I am not speaking to close friends or trusted colleagues. Most BBC journalists are equally careful. This attitude sometimes leads the layman to think that we are intellectual eunuchs who act without thinking. The reality is that we suppress our views and it is an effort.

Nobody seriously questions (perhaps I should say consciously or overtly questions) the right of citizens of this country to freedom of speech and therefore of information. What is questioned is the practice, how and why we choose the information we do, what effect it has on the audience. On the question of choice, the traditional answer is "news values". I have come increasingly to feel that it won't wash. It is an unfortunate phrase anyway, because it implies an unchanging standard by which news can be

measured – and that isn't true. On some days there is so much important news that it is difficult to fit it into even a long bulletin, or deal with all the items which demand attention in a current affairs programme. Sometimes, on Sundays, for instance, the most important story available is something which might only squeeze in, briefly at that, on a weekday. In the way that the price of shares varies from day to day and hour to hour according to the incidence of sellers and buyers, so events are included or left out by broadcasters according to the space available. No enduring value there.

He must not try to change people's minds, or confirm their beliefs; he must give them the untainted information they need to make up their own minds.

The truth is that our journalists choose what they believe to be the most significant and interesting new information available at the time they are going on the air. Their choice is conditioned by a number of factors, the most important of which is the tradition of the editorial office in which they work. In our case that tradition has been much the same since the start, although it has been modified over the years by changes of public taste, style and for the better by the abolition of monopoly. But the hardcore is still there, the determination to tell people accurately and honestly about the most important things going on in the world; then, if there is room, to tell them the things which are very interesting even though they may not be significant, like the winner of the Derby, and in doing so to engage the attention of as many people as possible without lowering our standards of judgment. But importance and significance come first and anyone who doubts it should make his own record of the contents of our output, day by day, over a month or so and then see if he still has doubts.

The act of broadcasting does not end at the transmitter; it must end in the minds of the listeners or viewers. If they are not there, the broadcast is a failure, because it has achieved nothing.

There are people who say that big audiences put too much power into the hands of a semi-monopoly. When I was first told that I held a position of great power, my reaction was incredulity – I have never had a sense of power and this is a common reaction among broadcasters. One thing, however, is certain, and that is even if we do have power, our editorial tradition and internal control certainly prevent us from using it. But there is a different kind of power I have been able to identify: the power to produce journalism of quality and checkable accuracy over long periods, so that the audience believes in our competence, disinterest and honesty. Most of our audience does believe that and we have figures to prove it. That power does not make me feel uneasy, because what it really is is the ability to serve the public.

Public Confidence

It is this very public confidence built up so painfully over so many years by so many of my predecessors – and my unyielding belief that our judgments and behaviour must measure up to it – that define one limit of what is probably our most difficult area in the present day of editorial responsibility. The other limit, the pressure put on us to behave "responsibly", ebbs and flows, and there are times when those applying the pressure would drive us beyond what I see as our duty to the public at large. The public's right to know, it is argued, should be limited where knowledge is held to have a harmful effect on society. Clearly the public's right can be qualified – it already is by law – but this is a balance of advantage which has been arrived at by Parliament, after public debate. Clearly also, no responsible broadcaster wishes to damage the society which he serves, and if there is a possibility that he may do so, he must think very seriously and clearly before he acts.

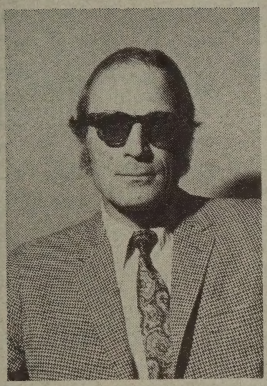
We report what is happening, the arguments for and against and, as they become known, the effects of policy. No Government (or Opposition) is perfect, so discomfort results from our attentions, not only at Westminster, but throughout the managerial section of our society. And when the managers complain that we are making their task more difficult and therefore restricting their ability to do their job properly on behalf of the electorate, or workers, or shareholders – should journalists decide what to leave out, or should they decide only on the accuracy and relevance of their work and leave the other decisions to their audience?

There is a different kind of power I have been able to identify: the power to produce journalism of quality and checkable accuracy over long periods, so that the audience believes in our competence, disinterest and honesty.

Much is made nowadays of the harm we do in reporting industrial disputes. Young reporters, it is said, jump on management and trade unions as they emerge, tired after hours of negotiations, and trap them into injudicious statements which tend to polarize already difficult situations. Managements feel that unions get on the air too much, because their responsibilities make it easier for them to talk. Unions feel that, in the nature of things, they are always seen to be attacking and seeking to bring about change, while management defends stability. A minority of the public feel that we should not be interfering in these serious matters before they are settled by competent people. Yet who can doubt that the interaction of workers and management over the last decade has affected every single citizen in our society? Would we have done our duty by leaving it all to be settled in private? Would the man in the street have had a better understanding if we had left all reporting until the end? And who would have paid any attention to us, after a few days, if we had? The BBC does not exist in a vacuum and the audience would soon turn to other sources of news.

The same thing would happen if we followed another line of advice, advanced by honestly concerned people who are worried about the present state of the country. As, in their vew, there is a national emergency, should the BBC not assist by conditioning its broadcasting so that it heartens the nation instead of depressing it? Play up the good news, and play down the bad. Emphasise what is positive in our affairs, not our troubles. Over-

VOICES OF THE BBC



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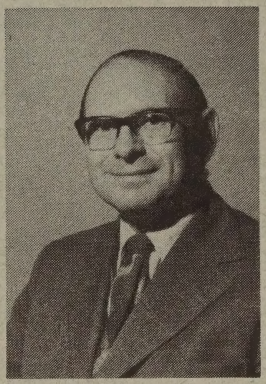

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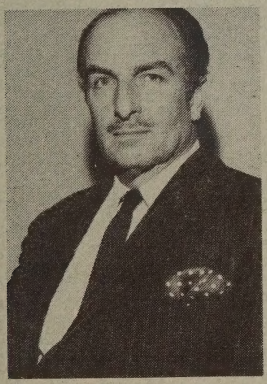

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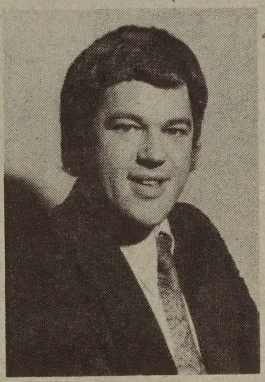

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critical journalism has brought our institutions into disrepute – especially Parliament, so the argument runs. But encouraging the nation would only work if everybody did it – which they won't – and if the population was a good deal more gullible than it actually is. One of the more depressing aspects of all the suppression and manipulation theories is the low view that is taken of the public's intelligence. Another is that it is not realised that they would have a much more harmful effect on our democracy than the ills they are intended to cure. Freedom of information and discussion does not harm our institutions, it strengthens them. I hear much criticism of politicians: not, significantly, of Parliament. And these freedoms are such a basic right that if they are to be curtailed, Parliament is the place in which to do it, as it is the place in which to seek a cure of the nation's ills. Criticism of broadcasters is not a substitute for political action, although more and more people seem to think that it is.

Freedom of information and discussion does not harm our institutions, it strengthens them.

None of this should be taken to mean that journalists have no responsibility in reporting and discussing the country's problems, but it is not irresponsible to feel that the problems should be handled by the people elected to do so. It would be arrogant and insupportable if we tried to take a hand in solving them ourselves and strayed outside the strictly journalistic role. Provided we stick to that, and do our job well, society is not hurt. The effect of journalism is, in the long run, to heal.

The normal context of our news broadcasting is set out by our Director-General and Editor-in-Chief, Sir Charles Curran, as follows: "We have a responsibility to provide a rationally based and balanced service of news which will enable adult people to make basic judgments about public policy in their capacity as voting citizens of a democracy", and furthermore we have to add to this basic supply of news a service of contextual comment which will give understanding as well as information. It is there that we begin to run into trouble. The selection of news of a factual kind is difficult enough. The selection of people to comment on it, or even simply to explain it, and the identification of which are the important views to place before the public, is much harder. But it has to be done, and the only practical guideline is to try to ensure that every view which is likely to have a lasting effect on public thinking is at some time reflected in the public debate on the air about any particular subject".

The selection of news of a factual kind is difficult enough. The selection of people to comment on it, or even simply to explain it, is much harder. But it has to be done.

I would like to end with an anecdote which illustrates what happens when journalists do stop serving the public and pursue, instead, not the good of the country's institutions, but that of its Government and authorities in general. I was in such a European country recently, and I overheard a responsible member of the public – no wild man – criticising his broadcasters in a way which made me turn cold. They should not, he said, agree to take such important positions if they are not prepared to tell us the truth. I hope that that can never be said of us.

Captions: Page 39

1. Roger Collinge – Newsreader
2. Lindsay MacDonald – Senior Newsreader
3. **Pam Creighton** – Newsreader
4. Ian Gordon – Newsreader
5. Bob Berry – Newsreader
6. **Ann Every** – Newsreader.
7. **Meryl O'Keeffe** – Newsreader
8. Peter Wing – Announcer and Newsreader
9. John Gordon – Newsreader

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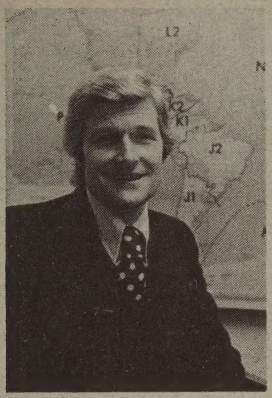
10. John Wing – Newsreader
11. **Margaret Howard,** presenter of "Letterbox"
12. Tony Szelynski – Newsreader

VOICES OF THE BBC



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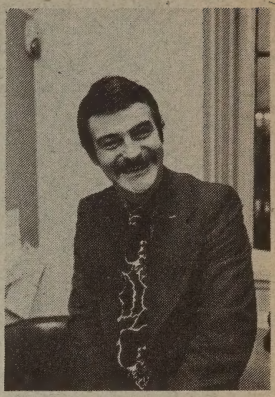

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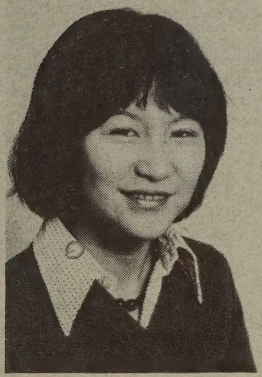
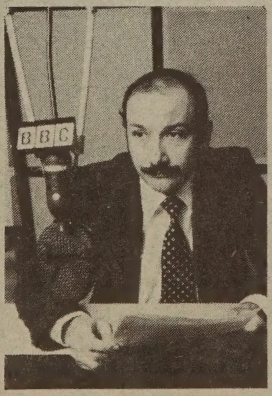


Yuriko Akishima, Japanese Service

Floriano Parreira, Brazilian Service

Sylvana Camiletti, Italian Service

Inke Maris, Indonesian Service



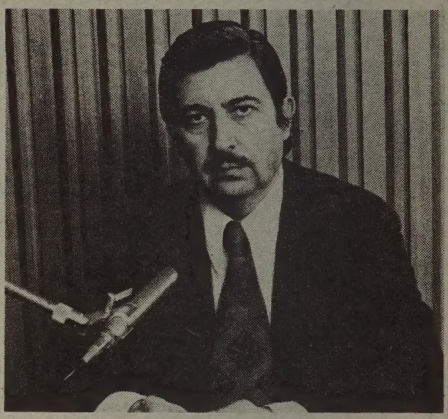
Domingo Valenzuela, Portuguese Service

Christine Fletcher, French Service

VOICES OF OTHER INTERNATIONAL BROADCASTERS

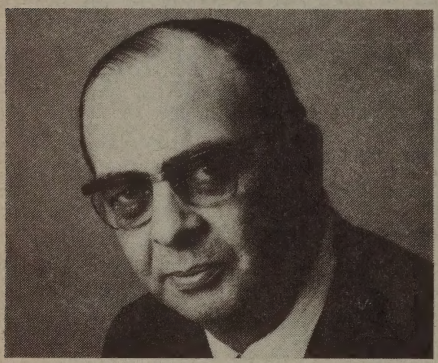
Radio Nederland Wereldomroep, Holland

Dick Speekman, English Department

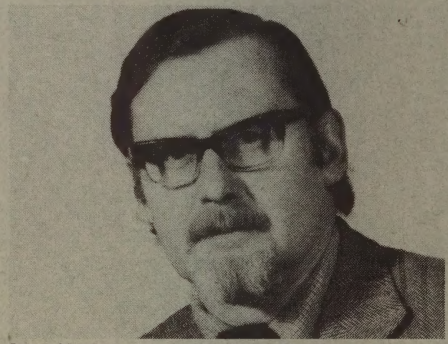


S. Silva Acuña, Spanish-Iberoamerican Department

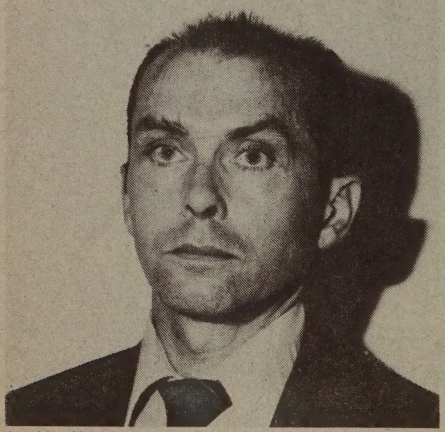
Deutsche Welle, Germany



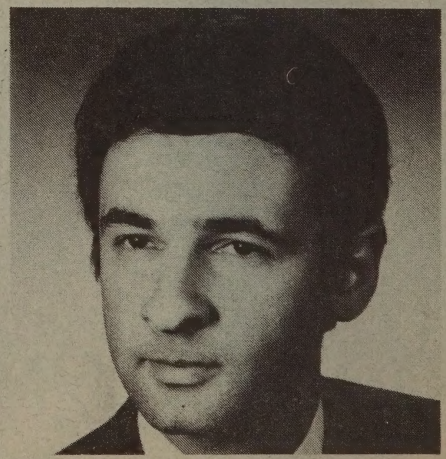
Gustav-Georg Thiele, DX-Editor



Bruce Marshall, Newsreader, English Service

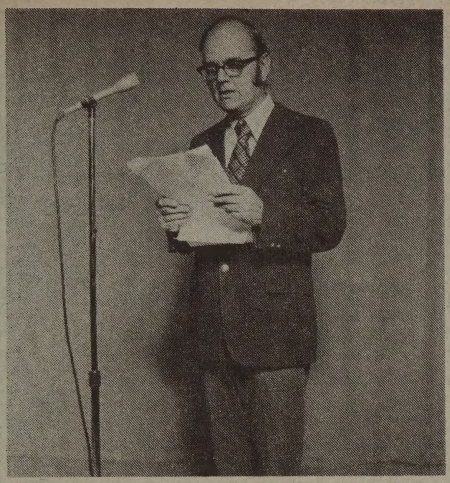


Joachim Neubourg, Newsreader, German Programme



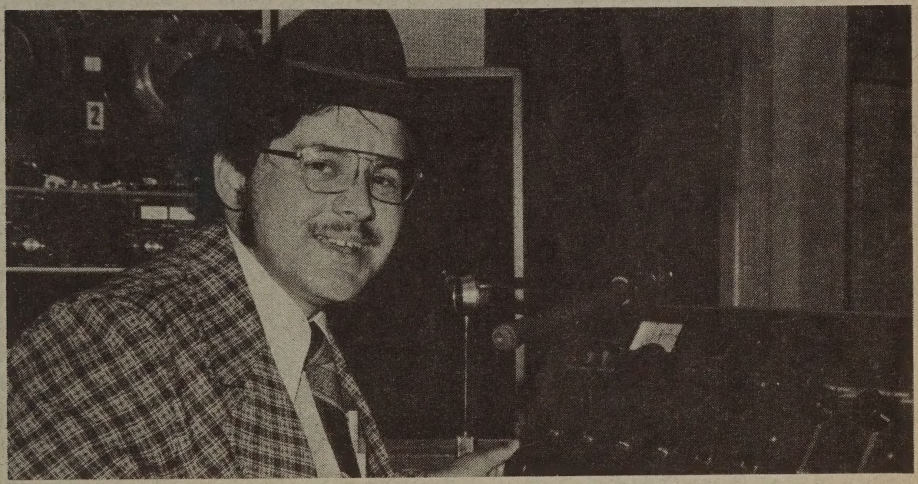
Roberto E. Baliari-Soust, Newsreader, Spanish Service

The Voice of the Andes, Ecuador



Bob Beukema, English News Service

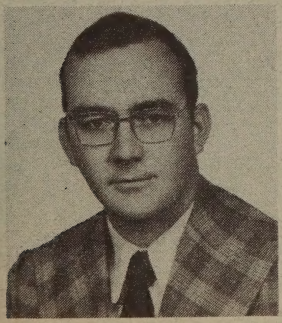
Clayton Howard, Host of "DX Party Line"



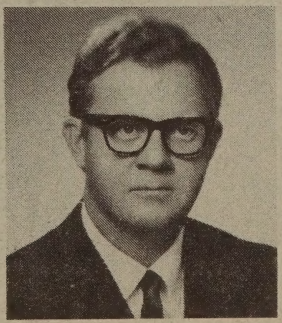
John Adams, Newscaster

Radio Nacional de Brasilia, Brazil

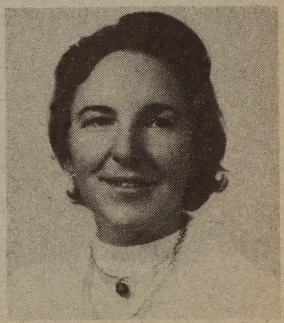
English Announcers



John Morris

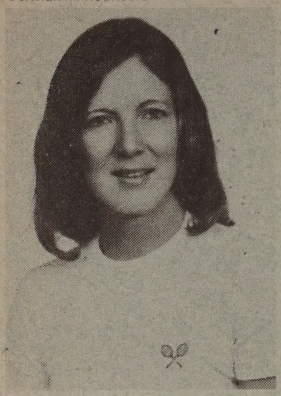


George Nunn

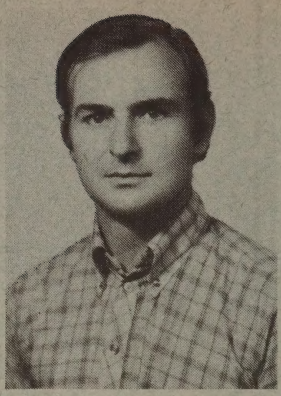


Lindsaye Nunn

German Announcers



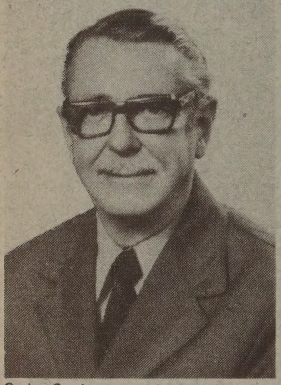
Edith Nortrut de Almeida



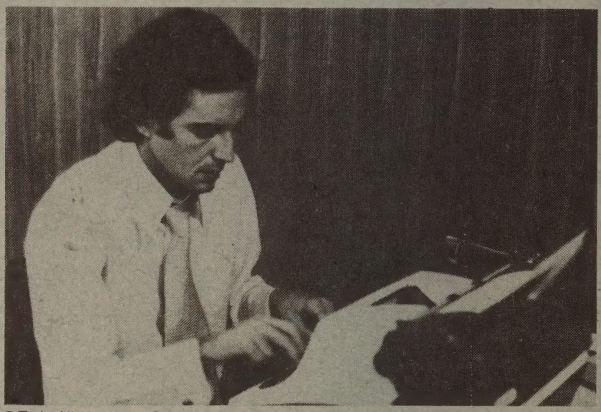
Andreas Walker

Esther Maria Schmid

Portuguese Announcers



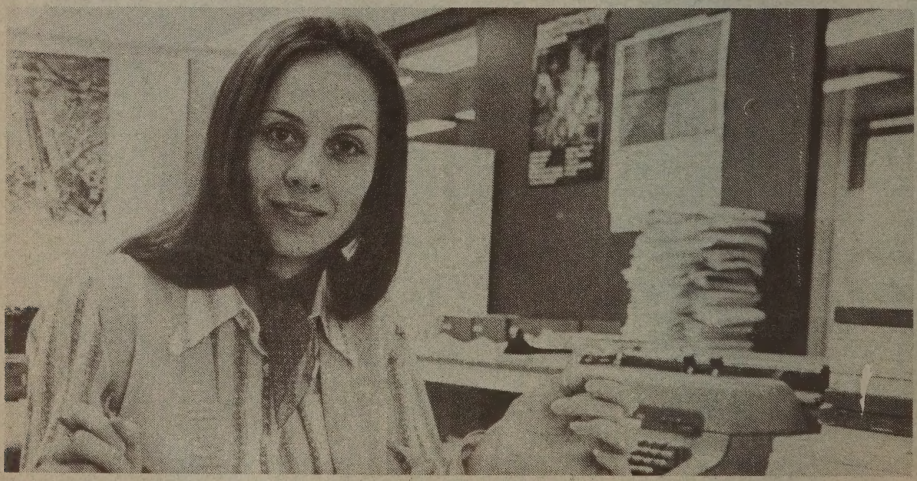
Carlos Cotrim



P.T. de Albuquerque Calvacanti

Radio Canada International, Canada

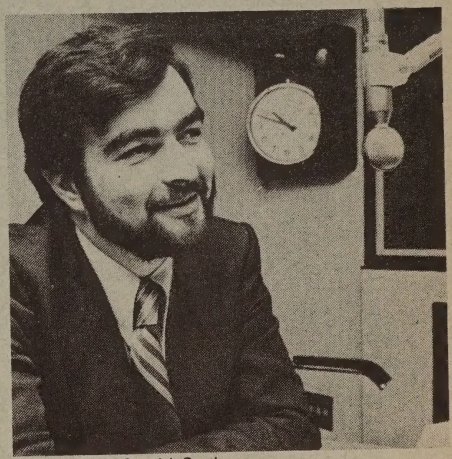
Announcers and Producers



Françoise Borel, English Section

Gordon Redding, English Section

Max Fleck and Dorette Schaeffer, German Section

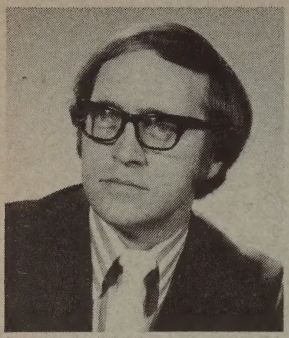


Ricardo Garcia, Spanish Section

Austrian Radio, Austria

DX-Editors (from left to right) Carlos A. del Castillo, Spanish Prgr. Wolf Harranth, German Prgr. David Hermges, English Prgr.

Radio RSA, South Africa



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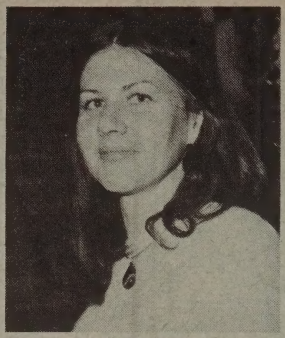
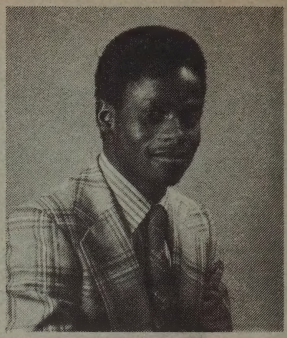
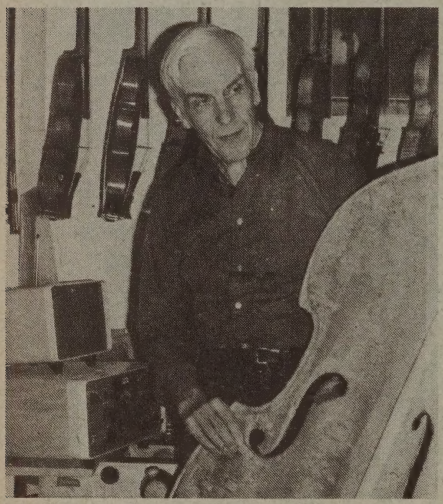


Modesta Belzer, Dutch Service



Boston Kaunda, Swahili Service

Radio Sweden, Sweden



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Francoise Strömberg, French Section

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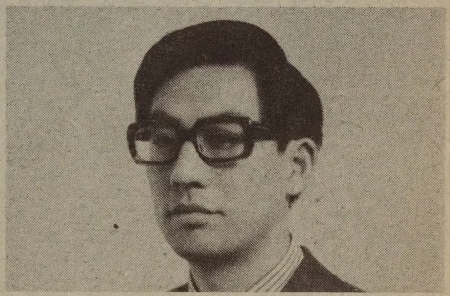

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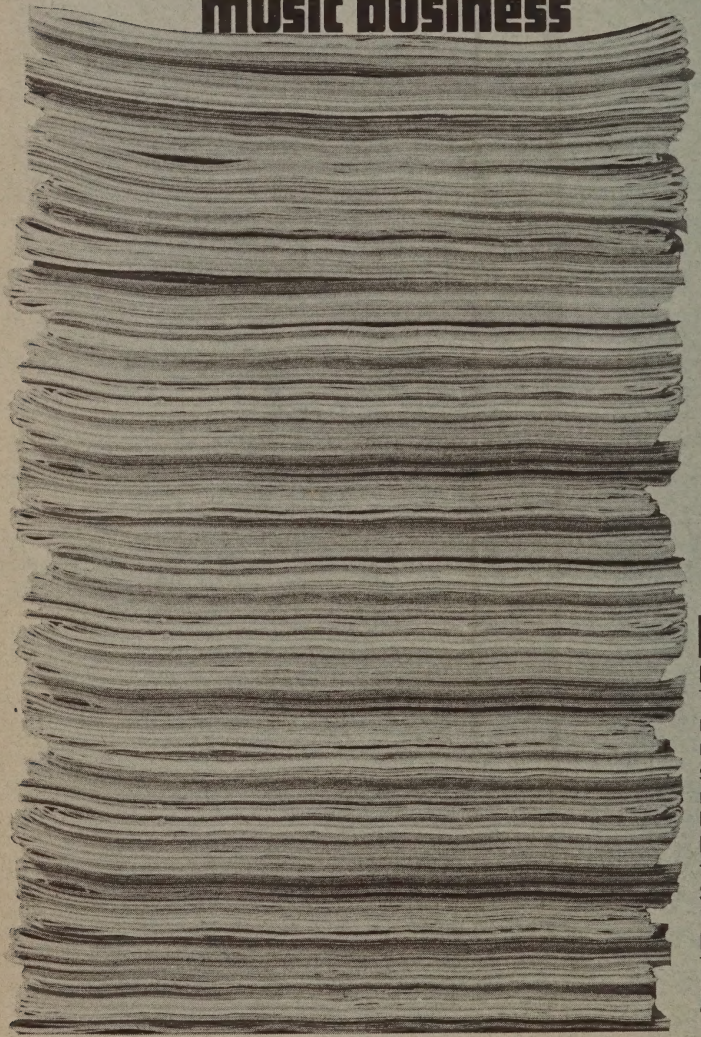

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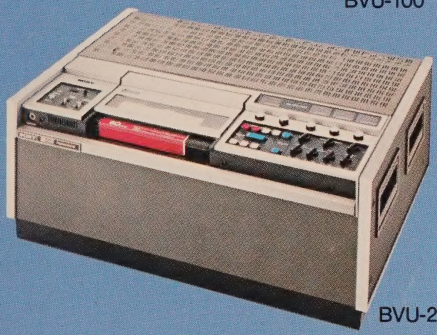

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